Exhibit B

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Page 1
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            UNITED STATES DISTRICT COURT
               DISTRICT OF NEW JERSEY
 2
 3
     IN RE: JOHNSON & JOHNSON
                                    MDL NO:
 4
     TALCUM POWDER PRODUCTS
                                    16-2738 (MAS)(RLS)
     MARKETING, SALES PRACTICES,
 5
     AND PRODUCTS LIABILITY
     LITIGATION
 6
 7
                Monday, July 8, 2024
 8
 9
10
11
               Remote Deposition of JOHN KORNAK, PhD,
     conducted at the location of the witness in Vienna,
12
13
     Austria, commencing at 10:04 a.m., by and before
14
     Robin L. Clark, Registered Professional Reporter and
15
     Notary Public in and for the Commonwealth of
16
     Pennsylvania and the State of New Jersey.
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310	6 South Baylen Street, Suite 600	BY MR. TISI: 7 4 BY MS. LEHMAN: 407	
	nsacola, Florida 32502-5996 0-435-7176	5	
1	si@levinlaw.com	6 EXHIBITS	
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	0-898-2034 rgaret.thompson@beasleyallen.com	13	
10 Illa	For the Plaintiffs	Exhibit 5 ASCO Publication 182	
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1 DEPOSITION SUPPORT INDEX	1 Austria, correct?
2	2 A. That's correct.
	3 Q. I have sent you a box of
3	4 documents, most of which we will use, but
4 Direction to Witness Not to Answer	5 I'm not sure of all of them. Do you have
5 Page Line	6 that in front of you, sir?
6 406 14	7 A. I do.
7 Request for Production of Documents	8 Q. Have you opened the box?
8 Page Line	9 A. I've opened the box.
9 NONE	10 Q. Okay. And do you have
10 Question Marked	11 everything in front of you so that we can
11 Page Line	12 go through things in
12 NONE	13 A. I haven't removed the tape as
13	14 of yet though.
14	, ,
15	15 Q. Okay. Why don't you go ahead
16	16 and do that and we can get started?
17	17 A. Okay.
18	18
19	19 (Discussion was held off the record.)
20	20
21	21 BY MR. TISI:
22	Q. Tell me when you're ready,
23	23 sir.
24	24 A. Okay. Ready.
Page 7	Page 9
1 THE STENOGRAPHER: All parties	1 Q. Have you been hired by the
2 to this deposition are appearing	2 lawyers defending Johnson & Johnson and LLT
3 remotely and have agreed to the	3 to offer opinions relating to a May 24
4 witness being sworn in remotely.	4 study by NIH scientists called "Intimate
5 Due to the nature of the remote	5 Care Products and Incidence of
6 reporting, please pause briefly	6 Hormone-Related Cancers: A Quantitative
7 before speaking to ensure all	7 Bias Analysis"?
8 parties are heard completely.	8 A. Yes, I was retained to give
9 Counsel will be noted on the	9 an independent opinion of that of that
stenographic record.	10 paper.
11	11 Q. Okay. If I call it O'Brien
12 JOHN KORNAK, PhD, having	12 (2024) to make it easier, would that be
been duly sworn, was examined and	13 okay?
testified as follows:	14 A. That's fine, yes.
15	15 Q. All right. Do you have a
16 BY MR. TISI:	16 hard copy in front of you, sir?
17 Q. Would you please state your	17 A. Yes, I have my
18 name for the record, please?	18 Q. You have your copy and just
19 A. Yeah, John Kornak.	19 for the record, it's Exhibit No. 8 in the
20 Q. Dr. Kornak, are you a	20 box
21 biostatistician?	21 A. Okay.
22 A. I am.	22 Q in the binder. Yours
23 Q. Okay. We have placed before	23 doesn't have any yours does not have any
24 you or sent you you're actually in	24 markings on it, correct?
	47 markings on it, concet:

Page 10	P. 10
1 A. That's correct, there's no	Page 12 1 I don't know that I would categorize it as
2 markings.	2 large, but the overall sample size was
3	3 large, but the number of cases was not as
4 (O'Brien (2024) Paper marked	4 large.
5 Kornak Exhibit 8 for	
6 identification.)	
7	6 is a 50,000 person study sponsored by the 7 NIH, correct?
8 BY MR. TISI:	· ·
	J 1 8
9 Q. Just to make it easier so you	9 I'm not sure whether NIH was the sponsor.
10 don't have to go back and forth between the	10 I have no reason to doubt that it was,
11 binder, your report is going to be Exhibit	11 but
12 No. 1, which I understand you brought with	12 Q. Now, using I'm sorry, and
13 you and the O'Brien (2024) is Exhibit	13 because we're on a Zoom, if I cut you off,
14 No. 8. Do you see that in your binder?	14 I don't do that intentionally and if you
15 A. Let me check. Yes, Exhibit	15 cut me off, I will also agree that you're
16 No. 1 looks like my report. And Exhibit 8	16 not doing it intentionally and we'll try to
17 looks like the paper.	17 work with each other.
18	18 A. That sounds good. I just
19 (Expert Report marked Kornak	19 wanted to check if you wanted me to search
Exhibit 1 for identification.)	20 through to make sure that I assume they
21	21 have it somewhere in a footnote.
22 BY MR. TISI:	Q. They do, and we'll get to
Q. Okay. All right. And I	23 that. So let's just see if we can move
24 understand, just for the record, that you	24 forward.
Page 11	Page 13
1 brought your report and O'Brien (2024) with	1 Now, using statistical
2 you, but they don't have any markings on	2 methods that we'll be discussing in this
3 them, correct?	3 deposition, including a quantitative bias
	4 analysis multiple imputation and other
4 A. That's correct, no markings.	4 analysis, multiple imputation, and other
5 Q. And you didn't bring any	5 recall bias scenarios, this peer-reviewed
Q. And you didn't bring anynotes of any kind, correct?	5 recall bias scenarios, this peer-reviewed6 study concluded that genital talc use was
Q. And you didn't bring anynotes of any kind, correct?A. No, no notes.	5 recall bias scenarios, this peer-reviewed6 study concluded that genital talc use was7 associated with ovarian cancer,
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any 	 5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study 	 5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations,
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study or generating this report? 	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct?
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study or generating this report? A. No, I don't have any notes. 	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study or generating this report? A. No, I don't have any notes. Q. Okay. All right. Now, the 	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study or generating this report? A. No, I don't have any notes. Q. Okay. All right. Now, the O'Brien (2024), which is Exhibit No. 8, 	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study or generating this report? A. No, I don't have any notes. Q. Okay. All right. Now, the O'Brien (2024), which is Exhibit No. 8, appeared in the peer review Journal of 	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method.
 Q. And you didn't bring any notes of any kind, correct? A. No, no notes. Q. Do you have any notes of any kind related to your review of this study or generating this report? A. No, I don't have any notes. Q. Okay. All right. Now, the O'Brien (2024), which is Exhibit No. 8, appeared in the peer review Journal of Clinical Oncology, correct? 	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay.
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes.	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024?	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15,	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes.	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes. 21 Q. And O'Brien (2024) paper you	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I 21 understand you have differences with their
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes. 21 Q. And O'Brien (2024) paper you 22 stated for a large NIH cohort study called	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I 21 understand you have differences with their 22 conclusion, but their conclusion was, and
5 Q. And you didn't bring any 6 notes of any kind, correct? 7 A. No, no notes. 8 Q. Do you have any notes of any 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes. 21 Q. And O'Brien (2024) paper you	5 recall bias scenarios, this peer-reviewed 6 study concluded that genital talc use was 7 associated with ovarian cancer, 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I 21 understand you have differences with their

Page 14 Page 16 1 Generated, Genital talc use was positively 1 BY MR. TISI: 2 associated with ovarian cancer for a range 2 Q. Correct. Okay. Now, from 3 of plausible bias-correction scenarios, 3 what I can tell, you met with J&J's lawyers 4 with higher rates seen for frequent and 4 to discuss preparing a litigation report 5 long-term users." 5 addressing the O'Brien (2024) study on That's what the study said, 6 about May 20, 2024, five days after the 6 7 study was published, correct? 7 correct? 8 A. Well, that's what they -- the 8 A. I don't recall meeting with 9 authors say in these particular couple of 9 J&J lawyers on that date. I may have. 10 sentences, but they had also use words such 10 That's around the date that I was first 11 as support a positive association in the 11 contacted about the case. 12 conclusion in the abstract. And the 12 And the goal was to generate 13 and submit the litigation report that 13 relevance talks about a measure confounding 14 could still be present. So that kind of 14 ultimately became Exhibit No. 1, correct? 15 qualifies the statement a little bit, I 15 That's not what I understood 16 think. 16 the goal to be. I understood it to be that 17 Q. And they also concluded that 17 I was to provide an independent review of 18 the association existed even after 18 the O'Brien (2024) paper from my 19 adjusting for recall bias using various 19 biostatistical perspective. 20 scenarios that they discussed in the paper, 20 Q. It's not entirely 21 independent, right? You were actually paid 21 correct? 22 \$50,000 to generate that report, correct? 22 I don't know if that's the MS. LEHMAN: Object to form. 23 precise wording. I remember something that 23 24 they said like that, but I don't agree with 24 THE WITNESS: It's correct Page 15 Page 17 1 that. 1 that I was paid \$50,000 to generate 2 2 Okay. I understand you don't that report, but I approached it 3 agree with it. We're just trying to get 3 from an independent perspective. 4 what the paper said and then we'll talk 4 BY MR. TISI: 5 about your criticisms, okay? 5 Well, I wasn't in the room to 0. 6 talk to you about my perspective, was I? 6 Okay. Do you want to --7 whereabouts -- do you want to read a You are correct that you were precise statement that they said or --8 not in the room to talk about your Actually, we'll get to that. 9 perspective, but I was not -- I reviewed 10 I'm not going to -- I'm not going to -- if 10 the paper itself. I took the paper, I 11 you don't understand that to be the 11 looked at it, I read it. It's my 12 conclusion of the authors, then I will move 12 perspective. Okay. We'll talk about that 13 on. But do you understand that the 13 O. 14 authors' general proposition was there was 14 in a moment, if we could. But it's fair to 15 a positive association even considering 15 say that you learned of this study through 16 recall bias and used various scenarios to 16 litigation and not in the normal course of 17 test that? 17 your academic endeavors? 18 18 MS. LEHMAN: Object to form. Yes, that's fair to say. 19 Asked and answered. 19 Okay. And to be clear, 20 THE WITNESS: I would sort of 20 neither J&J or any of its subsidiaries in 21 qualify that they would say they 21 the normal course of business contacted you 22 had some evidence to support that 22 to help them understand this study, it was 23 the lawyers, true? 23 as being what they are saying. 24 24 It was -- it was the lawyers

1	Page 18 through Cornerstone Research.	1	Page 20 identification.)
2	Q. We'll talk about Cornerstone,	$\frac{1}{2}$	identification.)
1	but the company itself, just to be clear,		BY MR. TISI:
	the company never called you independently	4	
5		l	Q. Okay. On May 20, 2024, you reviewed the O'Brien (2024) quantitative
-	this study, its strengths and its	6	
1	weaknesses in our normal course of	7	
8	business, did they?	8	Do you see that?
9	•	9	A. Yes.
10	MS. LEHMAN: Object to the form.	10	Q. Does that refresh your
11	THE WITNESS: J&J didn't	l	recollection the first day you ever spoke
12	contact me.		to anyone about this paper, you spoke with
13	BY MR. TISI:		Cornerstone and the lawyers for J&J?
14	Q. It was the lawyer?	14	A. Okay. So I certainly accept
15		l	what I have here in the statement. None of
	MS. LEHMAN: Object to form. BY MR. TISI:	l	
17			it refreshes my memory exactly, but I remember I had a call with Cornerstone and
	Q. Through Cornerstone, it was the lawyers?	l	
19	A. Cornerstone Research		then a meeting was set up to also meet with the legal team and that would have been
1	contacted me.		•
21			later in the day given that it was on the same day. It was a separate
	Q. Right, but they were operating at the direction of the lawyers,	22	Q. All right. But my point is
	true?	l	that you said that you were going to do an
24	A. I don't know what their exact		independent analysis of this paper, but at
24		24	
1	Page 19		Page 21
1	relationship is with the lawyers and J&J		the time that you first got this study, you
	and I didn't ask.	l	met with Cornerstone and J&J's lawyers and
3	Q. Okay. We're going to be	3	nobody else, true?
	talking about Cornerstone in a moment, but	4	MS. LEHMAN: Object to form.
1	your initial meeting with them on your	5	THE WITNESS: Can you repeat
1	billing statement states you met with J&J's	6	that question? It seemed a
1	lawyers and Cornerstone on the first day	7	little
1	where you were retained to look at this	l	BY MR. TISI:
	study. Does that refresh your	9	Q. Yes. You got a copy of the
-	recollection?	l	paper on or about May 20, 2024, correct?
11	A. I mean, if I I have no	11	A. I believe that to be true.
	reason to doubt it. I would like, you	12	Q. And on the same day, you
	know, to		spoke to J&J's lawyers, true?
14	Q. Well, let's	14	A. Yes.
15	A take a look.	15	Q. And there was nobody else
16	Q. I'm a little bit out of	l	there, nobody from, for example, my side of
1	order, but let's take a look at it. If you	17	the table that would talk to you about our
	would look at your statement, Exhibit No. 3	18	perspective on the 2024 paper, correct?
	in your binder, which is your billing	19	MS. LEHMAN: Objection. Asked
	statement.	20	and answered.
, , ,	A. Yes.	21	THE WITNESS: There was
21			containing no one troughteen not
22	(Dilling Chatage and made d	22	certainly no one you were not
	(Billing Statement marked Kornak Exhibit 3 for	22 23 24	there.

Page 22	Page 24
1 BY MR. TISI:	1 the paper.
2 Q. Right. And	2 BY MR. TISI:
3 A. I don't know to what extent	3 Q. And you knew that that report
4 I'm allowed to talk about what was in the	4 would then be used in litigation, correct?
5 meeting since it was it would be	5 A. I assumed it was for the
6 privileged, but really it was more about my	6 case, yes.
7 CV.	7 Q. And you in fact did generate
8 Q. Okay. Now, you also all	8 a report and it was filed on May 28, eight
9 right. We'll talk about that in a moment.	9 days later, correct?
Now, you understood that now	10 A. Correct.
11 and you understood at that time that the	11 Q. All right. And that report
12 purpose of that meeting was get to you to	12 is marked in your binder as Exhibit 1,
13 write a litigation report in this	13 correct?
14 litigation relating to the O'Brien (2024)	14 A. Yes.
15 study, correct?	15 Q. Okay. And if you go to
16 A. Yeah, I was asked to	16 page 2 to 4 of your report, page 2 to 4 of
17 independently review the O'Brien (2024)	17 your report, you summarize and you say that
18 paper.	18 even though the authors find a
19 Q. And, in fact, you produced a	19 statistically significant association
20 report for J&J's lawyers supporting the	20 between genital talc use and ovarian
21 position that the paper is flawed and	21 cancer, even considering potential biases,
22 unreliable on May 29, 2024, correct, less	22 O'Brien (2024) was flawed and unreliable,
23 than ten days after meeting with the	23 correct?
24 lawyers and Cornerstone, correct?	A. Sorry, I'm just trying to
Page 23	Page 25
1 A. I would have to look at the	1 find the precise paragraph you're reading
2 date of my report. I don't I don't have	2 from on page 2 to 4?
3 any reason to doubt that was the date it	3 Q. On I'm sorry.
4 was produced, but	4 A. Is it paragraph 10?
5 Q. Well, if you take a look	5 Q. Yes. Correct.
6 if you take a look at your litigation	6 A. I'm sorry, what's the
7 report, Exhibit 1, on the front page, it	7 statement from paragraph 10?
8 says report of May 28, 2024; is that	8 Q. "While the authors find a
9 correct?	9 positive and consistently significant
10 A. Yes, but I would ask if you	10 association between genital talc use (based
11 could repeat your question, because there	11 on these adjustments)," which we will talk
12 was one part I didn't sort of agree with in	12 about, "and ovarian cancer, the authors'
13 particular.	13 'imputations' of, 'corrections' to, and
14 Q. Sure. You were retained and	14 assumptions regarding genital talc use
15 met with the lawyers from J&J on May 20,	15 makes their analysis flawed and
16 2024, with the goal of writing a litigation	16 unreliable."
17 report, correct?	
	17 A. I'm sorry, I thought you were
MS. LEHMAN: Object to the	18 saying paragraph 10. You're on
19 form. Asked and answered.	18 saying paragraph 10. You're on 19 paragraph 11 there, right?
form. Asked and answered. THE WITNESS: No, my goal was	18 saying paragraph 10. You're on19 paragraph 11 there, right?20 Q. Correct.
form. Asked and answered. THE WITNESS: No, my goal was to review the O'Brien (2024) paper	 18 saying paragraph 10. You're on 19 paragraph 11 there, right? 20 Q. Correct. 21 A. Okay.
form. Asked and answered. THE WITNESS: No, my goal was to review the O'Brien (2024) paper and then write a report on my	 18 saying paragraph 10. You're on 19 paragraph 11 there, right? 20 Q. Correct. 21 A. Okay. 22 Q. And that's what you that's
form. Asked and answered. THE WITNESS: No, my goal was to review the O'Brien (2024) paper	 18 saying paragraph 10. You're on 19 paragraph 11 there, right? 20 Q. Correct. 21 A. Okay.

1	Q. And you reached that opinion	1	Page 28 question. Between the time that you first
1	Q. And you reached that opinion in eight days or less, correct?		met with Jessica Davidson on the 20th of
$\frac{2}{3}$	A. Yes.		
			May and the time your report was filed on
4	Q. Okay. Now, let's go to your		the 28th or finalized on the 28th, how many
5	billing statement, Exhibit No. 3 and it		times did you meet with Ms. Davidson either
6 7		7	by phone or in person? A. I don't recall that I even
	May 20, 2024.	'	
8	Do you see that?		met with her again since that initial
9	A. Well, yeah, I would agree	9	meeting until after my report was filed.
1	that's when I started reviewing it.	10	Q. Okay. And then after
11	Q. Okay. All right. Well, you	11	A. I'm not saying that's for
	reviewed it, did you read the whole thing		certain, I just don't recall.
1	on May 20, 2024?	13	Q. Okay.
14	A. I mean, I don't know how you	14	A. I don't know.
1	would exactly define it. Did I read every	15	Q. Okay. And we'll talk about
1	word in there, I don't think so. I think,		after your report in a moment.
1	you know, the way I approach reading a	17	Now, we've talked several
	paper to review it is not to start on		times about Cornerstone. Could you tell me
	page 1 and read through every word all the		what Cornerstone is?
	way to the end. I often jump around and	20	A. I don't know exactly.
	then I often fill in the pieces. So I		They're some kind of company that supports
	can't say whether I read every piece of		legal cases and they were made available to
1	that paper on the first day or not.		me in an administrative support role.
24	Q. Well, you did meet with the	24	Q. Well, actually, in your
	Page 27		Page 29
1	legal team on the first day, correct?		report in your CV, which I have had
2	MS. LEHMAN: Objection. Asked		marked as I'm a little out of order, but
3	and answered.		in your CV, which I've had marked as
4	THE WITNESS: I did meet with		Exhibit No. 2, you actually list
5	the legal team on that day.		Cornerstone as somebody with whom you work.
6			Am I correct about that?
7	Q. Okay. Who did you who on	7	A. Yes, I worked with them
	the legal team did you meet?		previously.
9	A. There was Jessica Davidson	9	
1	and another lady that I don't recall the	10	(Curriculum Vitae marked
1	name of, but I have not seen on matters	11	Kornak Exhibit 2 for
	since, so.	12	identification.)
13	Q. Okay. Have you met with	13	
	Jessica Davidson after this initial meeting		BY MR. TISI:
1	on May 20, 2024?	15	Q. Okay. And are they a company
16	A. Yes, I have.		that finds experts for companies who are
17	Q. How many times?		looking for experts?
18	A. I would estimate somewhere	18	A. I don't know that that's what
	between five and ten times.		the complete the company completely is.
20	Q. Okay. Those are not	20	Like I say, they also provided me with
21	reflected on your billing statement?	21	11
22	A. Sorry, can I just between		completely what the company does.
22	A. Sorry, can I just between which dates? I didn't I thought Q. Well, that was going to be my	22 23 24	completely what the company does. Q. Well, you listed A. Based on experts, they found

	Dec. 20		Press 22
1	Page 30 me, so I would go along with that, but as	1	Page 32 reveal that information.
	far as I know, I haven't researched them to	2	THE WITNESS: Yeah, I don't
1	know beyond that.	3	believe this part of it is
4	Q. So you work with a company	4	privileged in the sense that
5	that you don't know what they do?	5	they that Cornerstone did
6	MS. LEHMAN: Object to form.	6	contact me about that particular
7	BY MR. TISI:	7	case.
8	Q. You list them on your CV and	8	BY MR. TISI:
_	you and work with them	9	Q. And it said that you were
10	A. I don't work for Cornerstone.		identified as an expert witness, correct?
	I mean, they retain me they, through the	11	A. I would say a potential
	lawyers, through them retained me to work		expert witness, but
	on this case. I don't work for them.	13	Q. Did you generate a report?
14	Q. Well, it says on your and	14	A. I'm kind of nervous now,
l	you can look on your CV, which is Exhibit	15	because I don't know if that's sort of
l .	No. 2		getting into what is privileged information
17	A. Uh-huh.		or not.
18	Q page 14 of 77, it has that	18	Q. Well, I'm just asking you,
l	you've worked with Cornerstone Research	19	did you generate a report?
l	from 2022 to 2023, that would be through	20	MS. LEHMAN: So let me just
21	2024, correct?	21	jump in here, John. If you were
22	A. Well, the case that I was	22	disclosed as a witness, then you
	working on with Cornerstone Research, 2022	23	can talk about it. If you were
	to 2023, I'm no longer involved in. So,	24	if you were purely a consulting
24	<u> </u>	24	
1	Page 31 you know, my CV, as you can tell, is very,	1	Page 33 witness so that you were not
	very long and I don't necessarily I am	2	disclosed, then information about
	not able to keep every single thing up to	3	what you did would be privileged.
	date, but, yes, now, I would update it and	4	THE WITNESS: Yes, so I was
	say I have also done work with Cornerstone	5	not disclosed, so.
	in 2024.	_	BY MR. TISI:
7	Q. And we'll go through this	7	Q. Okay. We'll get back to that
l	and, but you've worked with I'm sorry,		in a moment, but in terms of Cornerstone,
	is somebody saying something? I'm sorry.	9	okay, you have been working with a company
	You have worked with Cornerstone in another	10	that finds experts for litigation for
	case they found you as an expert for		since at least 2022, correct?
12	another company beginning in 2022, correct?	12	A. You say working with?
13	MS. LEHMAN: And let me	13	Q. Yes.
14	just let me just I just want	14	A. I don't know if working with
15	to caution John, because this is		is right. Again, I can't talk about the
16	not my client, but to the extent he	l .	previous case, but in this case, they're
17	was a consulting litigation expert	17	•
18	who was not disclosed, I would just		administrative support. So I don't know by
19	tell him to be cautious about not		"working with" what you would mean.
20	revealing privileged information.	20	Q. How did J&J find you in this
21	And John would know the answer to		case?
22	that, not me. I'm just putting	22	A. Cornerstone found me.
23	that out there to the extent that	23	Q. Okay. Cornerstone found you.
24	it is privileged, he should not		You're basically an expert that puts your
		1	7 F F F 7

Page 34 Page 36 1 name in with Cornerstone and if Cornerstone 1 don't know what their mechanism is. I 2 has a client that's looking for litigation 2 don't know what their relationship is with 3 support and your CV matches, they connect 3 their clients. I'm not clear on that. 4 you, right? 4 Q. Well, you've actually worked 5 That's not totally correct. 5 with law firms going back many years, true? A. Yes. 6 I didn't put my name in with Cornerstone. 6 How does Cornerstone know 7 7 Q. Okay. So Cornerstone 8 you? 8 Research is kind of an extension of what 9 9 you were doing all along, true? I don't know for sure, but A. 10 I'm a well-known professor of biostatistics 10 MS. LEHMAN: Object to form. 11 at a leading medical institution. I'm on THE WITNESS: I find that 11 12 the university website as a professor and 12 question, like, completely 13 you see my CV, so they can look me up and 13 confusing. 14 they can contact me and then people have 14 BY MR. TISI: 15 many -- people have done that for various 15 Q. Okay. Well, let's talk about 16 fields. 16 it then. Okay. If we can go back to the 17 Q. Well, and they've done it at 17 prior page on your CV, you were working as 18 least twice, they found you in the previous 18 a statistical consultant for law firms 19 case and they found you in this case, 19 since at least 2015, correct, page 13 of 20 right? True? 20 77? 21 21 A. I mean, they found me in the A. Yes. 22 first case and then whether they found me 22 Q. You worked with Goodman 23 or they had my name on record, that's 23 Neuman and Hamilton LLP as an expert 24 another question. 24 witness/statistical consultant, correct? Page 35 Page 37 1 Right. So you basically --1 A. I did that, I took a case 2 they basically had an ability to, you were 2 that, yeah, they asked me to be a witness 3 on record with Cornerstone, they connected 3 on. 4 with the first defendant, which you worked 4 Well, who asked you? Was it O. 5 with as a consultant, and you also were 5 Cornerstone or was it the law firm? 6 recalled by them to work with Johnson & 6 It was the law firm. 7 7 Johnson and their lawyers in this case, Okay. Now, the next case you 8 true? 8 were involved with was a law firm of Kelley 9 9 Drye & Warren LLP as an expert MS. LEHMAN: Object to form. 10 Asked and answered. 10 witness/statistical consultant in 2015, 11 THE WITNESS: Recalled, I 11 correct? 12 would consider recalling someone to 12 A. Yes. 13 work with you being like that 13 Q. Okay. The next one was 14 Carlson, Caspers, Vandenburgh, Lindquist, 14 you're their employee, I'm not 15 their employee. 15 and Schuman between 2015 and 2016 as an 16 BY MR. TISI: 16 expert witness/statistical consultant, Q. I understand you're not their 17 correct? 17 18 employee, but they're an expert locator 18 A. Yes. 19 company, true? They find experts for 19 And then you worked for 20 companies who are looking for experts for 20 Haynes & Boone LLP from 2016 to 2017, 21 litigation, true? 21 correct? Again, I don't know exactly 22 Well, I didn't -- I mean, I 23 don't know if you can say worked for all of 23 what they do. It seems that part of what

24 these. I don't -- I didn't work for them.

24 they do is to try to find experts, but I

D 00		D 40
	1	Page 40 It was kind of confusing, because I
•		was first with Kelley Drye & Warren
•		
-		and I think their party dropped out of the case and then I was retained
· · · · · · · · · · · · · · · · · · ·		as an expert witness by Carlson,
		Caspers. BY MR. TISI:
•	· '	
		Q. And how many times have you
		been identified as an expert witness in
•		litigation, sir? A. So does that mean how many
, 1		·
		times have I provided deposition or
•		something else
		Q. No, how many times have you
——————————————————————————————————————		written a report like you have in this
- ·		case, which was actually where you were
		actually designated, where you gave
		permission to the lawyers to say, yes, you
•		can designate me as a witness either by writing a report, in some states, you don't
		have to write a report, so you just get
- · · · · · · · · · · · · · · · · · · ·		designated. So if you would give me a
_		sense of how many times you have been
		designated as an expert on behalf of these
·	24	
	1	Page 41 law firms.
		A. I believe that is four,
		except that I'm not sure if the Kelley Drye
· · ·		& Warren and Goodman Neuman Hamilton counts
•		as two separate or just as one.
· ·		
where you were designated as an expert?		
where you were designated as an expert? MS. LEHMAN: I would just.	6	Q. And in each
MS. LEHMAN: I would just,	6 7	Q. And in eachA. If it's two separate, then it
MS. LEHMAN: I would just, John, to the extent that you were	6 7 8	Q. And in each A. If it's two separate, then it would count as five.
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think	6 7 8 9	 Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the	6 7 8 9 10	 Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that	6 7 8 9 10 11	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting	6 7 8 9 10 11	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct?
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to	6 7 8 9 10 11 12 13	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to	6 7 8 9 10 11 12 13 14	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct?
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information.	6 7 8 9 10 11 12 13 14	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with	6 7 8 9 10 11 12 13 14 15	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah,	6 7 8 9 10 11 12 13 14 15 16 17	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness.	6 7 8 9 10 11 12 13 14 15 16 17	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like,
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness. With Haynes & Boone, I was.	6 7 8 9 10 11 12 13 14 15 16 17	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like, specific papers or abstracts or
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness. With Haynes & Boone, I was. Winston & Strawn, I was. And then	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like, specific papers or abstracts or Q. My point is A analyses.
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness. With Haynes & Boone, I was. Winston & Strawn, I was. And then the previous, if you can scroll	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like, specific papers or abstracts or Q. My point is A analyses.
MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness. With Haynes & Boone, I was. Winston & Strawn, I was. And then the previous, if you can scroll back up to the previous page, and	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like, specific papers or abstracts or Q. My point is A analyses. Q. I'm sorry, we're talking over
	them. Q. And you worked for Winston & Strawn between 2016 and the present, true? A. Again, I was retained as an expert witness by them. I don't know if working for them is the right I don't think working for them is the right description. Q. Okay. You were retained as an expert witness by all of these law firms, including Winston & Strawn, who is a who is a law firm involved in this case. Do you know that?	I was retained as an expert witness for a case that they were in. Q. In which you were paid, true? A. Oh, yeah, yeah, I was paid. Q. Okay. Now, and you worked for Latham & Watkins between 2017 and the present, true? A. Yes. Q. Okay. And you have been paid by them as well? A. Yeah, I have been paid by them. Q. And you worked for Winston & Strawn between 2016 and the present, true? A. Again, I was retained as an expert witness by them. I don't know if working for them is the right I don't think working for them is the right description. Q. Okay. You were retained as an expert witness by all of these law firms, including Winston & Strawn, who is a who is a law firm involved in this case. Do you know that? Page 39 A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you 1 2 3 4 2 3 4 4 2 4 4 4 5 6 7 7 7 7 7 7 7 7 7 7 7 7

Page 42		Page 44
criticize a paper that was published by	1	Q. Well, and those words are
somebody else, true?	_	actually words that lawyers use all the
MS. LEHMAN: Object to form.		time. Was that a phrase that was given to
*		you by the lawyers in this case and asked
•		you whether or not this paper was flawed
* *		· ·
9	_	MS. LEHMAN: Object to form.
*		THE WITNESS: No, those words
		were not given to me by the
		lawyers.
- · · · · · · · · · · · · · · · · · · ·		BY MR. TISI:
· -		Q. Have you ever I'm sorry,
· · · · · · · · · · · · · · · · · · ·		go ahead.
		A. I mean, unreliable is
		reliability is a common term in statistics.
•		Flawed is just a simple English word that
		something has problems.
		Q. I'm using the phrase "flawed
-		and unreliable" together the way you used
		it in this report. Is that a phrase that
		you have ever used in any of your
-		publications or any of your papers or any
		of your expert reports before you used it
		20 times in this case?
		Page 45
	1	MS. LEHMAN: Object to form.
*	2	THE WITNESS: I mean, I don't
•	3	recall for sure whether I've used
	4	that phrase or not.
MS. LEHMAN: Object to form.	5	BY MR. TISI:
THE WITNESS: I think it's	6	Q. Okay. Let's go back to your
probably the first time that I've	7	invoice, Exhibit No. 3. So if I'm reading
*		this correctly, you met with the
		Cornerstone team on with respect to
· ·		generating this litigation report on
problems or issues in a paper.		May 20, May 21, May 22, May 26, and May 27,
BY MR. TISI:		with calls on May 28 and May 29; is that
Q. Okay. So you've typically		right?
not used the word "flawed and unreliable,"	14	A. Yes.
except in this case where you've used it	15	Q. Okay.
over 20 times, true?	16	A. That appears to be correct.
over 20 times, true.		
A. I don't recall for certainty	17	Q. I'm sorry.
	17 18	Q. I'm sorry. A. Yeah, that appears to be
A. I don't recall for certainty	18	A. Yeah, that appears to be
A. I don't recall for certainty whether I've used those words before or	18	A. Yeah, that appears to be correct based on looking here.
A. I don't recall for certainty whether I've used those words before or not. Q. Well, that's	18 19 20	A. Yeah, that appears to be correct based on looking here.
A. I don't recall for certainty whether I've used those words before or not. Q. Well, that's A. But I did, I will say that I	18 19 20	A. Yeah, that appears to be correct based on looking here.Q. Who at Cornerstone did you
A. I don't recall for certainty whether I've used those words before or not. Q. Well, that's	18 19 20 21 22	A. Yeah, that appears to be correct based on looking here. Q. Who at Cornerstone did you meet with and speak to?
	probably the first time that I've used those words, but I would agree that in these cases, there have been papers where I've found problems or issues in a paper. BY MR. TISI:	heard any any case where I have been asked to criticize something and if I was asked to just do that outright, I would not participate. BY MR. TISI: Q. Okay. Well, so let's see if maybe the phrase I used is incorrect. This is not first time where you have been called upon to provide an analysis that a paper was flawed and unreliable, true? MS. LEHMAN: Object to form. THE WITNESS: I would still not agree with that statement. And, again, I would not want to work in a case where it was the opinion I was supposed to provide was pre-assumed. BY MR. TISI: Q. Well, I'm not asking you whether you pre-assumed, I'm asking you what your ultimate opinion was. This is not the first case in which you have provided an opinion that a published paper was flawed and unreliable, true? MS. LEHMAN: Object to form. THE WITNESS: I think it's probably the first time that I've used those words, but I would agree that in these cases, there have been papers where I've found problems or issues in a paper. BY MR. TISI: BY MR. TISI:

	D 46		D 40
1	Page 46 regularly were Greg Eastman and I'm	1	Page 48 recall doing so.
	blanking right now, I'm sorry, at this	2	Q. And, in fact, if you go to
	moment, I can't think of his name, but I	l	your bibliography that you've actually used
	know it will come to me at some point.	l .	to generate this report, were any of those
5	Q. That's okay. Do you know		papers found by Cornerstone, Mr. Eastman,
	what their specialty was? Were they		or anybody else?
7	administrative? Were they	7	A. I think there were papers
	•		that I asked, like, them to get for me on
1	·		my behalf, yes.
10	A. I think they're both I	10	Q. Did they, for example, do a
	don't know in detail, I think they're kind	11	research on multiple imputation and whether
1	of PhDs in economic-related fields.		or not including outcomes as part of the
13	Q. Okay. So now you were	13	-
1	telling me before that they provided you	14	appropriate? Did they do things like that?
1	with simply administrative support. These	15	MS. LEHMAN: Object to form.
	were these were professional people,	16	THE WITNESS: I mean, I don't
	true?	17	know if they did them, but not at
18	A. Yeah, I would say they have	18	my direction. They do it was
19	PhDs and they work at a company, they're	19	not in discussion with me, it was
	professional.	20	not at my request, what they did.
21	Q. Okay. Did they do any	21	What's in my report is my own words
22	research for you?	22	and of my opinions.
23	A. In the sense that at times	23	BY MR. TISI:
24	they brought me papers that I requested. I	24	Q. Okay. So now looking back on
	Page 47		Page 49
1	asked them to generate a Google trends		your billing statement, May 20, 2024, you
	figure for me.	2	met with the lawyers and read the paper,
3	Q. Okay. And that's the table	3	although you might not have read the whole
4	that's in your report, correct?	l .	thing, I understand that, on the 20th.
5	A. It's not a table, it's a		When do you think you actually read the
6	figure, it's a graph, a plot.	6	whole paper cover to cover?
7	Q. Fine. So that wasn't your	7	MS. LEHMAN: Object to form.
	graph, that was a graph that they generated	8	THE WITNESS: I don't know if
9	for you, correct?	9	I ever read it from start to
10	MS. LEHMAN: Object to form.	10	finish, I mean, it's just not the
11	THE WITNESS: I take	11	way people tend to approach
12	responsibility for it. It's my	12	academic papers.
13	graph. It was generated at my	l	BY MR. TISI:
14	request, and yeah.	14	Q. Okay.
1	BY MR. TISI:	15	A. So but
16	Q. Have you ever used a Google	16	Q. Well, when was it that you
17		17	A. By the time I had written my
18	work?		report, I was completely familiar with the
	MS. LEHMAN: Object to form.		
	BY MR. TISI: On Have you used Google trands	20	Q. Okay. Well
21	Q. Have you used Google trends	21	A. Obviously, there were parts that I focused on more than others.
1	in any of your published work? A. I can't say with 100 percent	23	Q. So it looks like you actually
122		1 /. 7	O. BUILIUUKS HKE VUU ACUUAHV
23	certainty that I haven't, but I don't	l	prepared notes for your report on the 22nd,

Page 50 Page 52 1 do you see that, you spent ten hours? 1 aspects of what is flawed and unreliable Right. I spent ten hours 2 about this paper --Q. So, let me be clear -- so let 3 reviewing the paper preparing notes for the 3 4 report and meeting with the Cornerstone 4 me be clear. I understand you think that 5 team. 5 multiple, they're flawed and unreliable in 6 multiple areas, true? 6 Q. Right. Ten hours on the 7 22nd. Had you formed your opinions by then 7 A. Yes. 8 that the paper was flawed and unreliable? 8 Okay. The first time that A. I don't recall to what extent 9 you have come to the conclusion that one 10 I formed my opinions. By then, I was 10 area was flawed and unreliable was when? 11 forming my opinions in the process of MS. LEHMAN: Object to form. 11 12 writing the report. 12 THE WITNESS: I don't recall Okay. When do you think in 13 13 that. 14 this continuum from May 20 through May 28, 14 BY MR. TISI: 15 when you actually filed your report, in 15 Would it have been when you 16 those eight days, did you finally come to 16 started writing your report on the 23rd? 17 your opinions that you were prepared to 17 I probably had an idea of 18 offer that are reflected in your report, 18 something by the time I started writing my 19 Exhibit 1? 19 report. 20 MS. LEHMAN: Object to form. 20 Okay. So just to be clear, Q. 21 21 okay, you knew, you got this report, you Asked and answered. 22 got the O'Brien (2024) from the lawyers on 22 THE WITNESS: I wrote my 23 23 the 20th, you met with the lawyers on the report over this time and when the 24 report was written, then my 24 20th, and you had come to conclusion that Page 51 Page 53 1 opinions were completed. 1 the paper was flawed and unreliable to 2 write a litigation report beginning on the 2 BY MR. TISI: Q. Well, it says your report 3 23rd, correct? 3 4 was -- you were writing your report on the 4 MS. LEHMAN: Object to form. 5 23rd. Do you see that? And then you were 5 Misstates testimony. 6 revising your report on the 25th and the 6 THE WITNESS: I mean, again, I 7 26th and the 27th and the 28th. Was the 7 don't recall what I wrote on 8 report actually written in a draft form on 8 5/23 exactly, but between May 20 9 the 23rd? 9 and May 23rd, I mean, this was, to 10 10 review this paper was a compressed A. I mean, I think I may have 11 been a little loose with my language here timeline, so I spent a lot of time 11 12 between what constitutes report writing, 12 on the 21st and 22nd reviewing this 13 report editing, revising report. The 13 paper. So I would be -- that would 14 process was preparing my report the whole have been plenty of time for me to 14 15 way through, so at times, I might be 15 start -- certainly be aware of 16 writing a paragraph and I might be editing 16 problems with the paper. 17 another piece. 17 BY MR. TISI: 18 Q. I understand. I'm trying to 18 Right. So you spent about 18 19 get a sense, Doctor, as to when you first 19 hours, including meeting with the lawyers 20 developed your opinion that this paper was 20 and the company that actually found you for 21 flawed and unreliable and started -- for 21 the lawyers, between the 20th and starting 22 the purpose of generating your litigation 22 writing the paper on the 22nd. You wrote 23 report? 23 the report on the 22nd, true? 24 A. I mean, there are different 24 I'm sorry, repeat that again.

Page 54 Page 56 1 Q. Yeah. I said, just so that 1 a reliable association between talcum 2 we're clear, okay, you did not receive this 2 powder use and ovarian cancer. Getting to 3 paper in the normal course of your 3 causation is a much higher bar than that, 4 research, this paper was provided to you by 4 and I don't think they've reliably got to 5 the lawyers and the company that was 5 the lower bar. 6 retained by the lawyers to locate you on 6 Q. Okay. In this one paper, you 7 the 20th, true? 7 haven't looked at any other papers -- I 8 know you looked at some other papers by 8 A. I received the paper from 9 O'Brien and colleagues, but you didn't look 9 them and I also downloaded it on the 20th. 10 Right. And you spent about 10 at any of the other case control or cohort 11 18 hours, after meeting with the lawyers 11 studies that were generated in this 12 and Cornerstone, the company that locates 12 litigation for the past 50 years, did you? 13 experts for lawyers, in two days between MS. LEHMAN: Object to form. 13 14 the 20th and the 22nd, true? THE WITNESS: I did look at 14 15 MS. LEHMAN: Object to form. 15 some of them. I looked at -- I THE WITNESS: I don't want to 16 16 looked in particular at one or two 17 categorize what Cornerstone does as 17 meta-analyses in particular of the 18 part of the question. I mean --18 case controls and one that combined 19 BY MR. TISI: --19 case control and cohort. And I 20 O. Fine. 20 don't recall if I looked at any of 21 21 A. -- Cornerstone contacted me. the individual studies, but I 22 What they do --22 looked at the meta-analyses that 23 23 Q. So let's be clear -summarized each of the studies. 24 -- their business is, like, 24 Α. Page 55 Page 57 1 if we can leave it out of it. 1 BY MR. TISI: 2 Then I'll leave it out. I'll 2 Okay. But just to be clear, 3 leave it out. Let me rephrase the 3 okay, you have not done a comprehensive 4 question, sir. Okay. You were provided a 4 review of all of the data to determine 5 copy of O'Brien (2024) on the 20th. You 5 whether or not as a whole talc is 6 met with the lawyers on the 20th. And by 6 associated with or caused by -- causes 7 the 22nd, you had come to the conclusion in 7 ovarian cancer, correct? You just looked 8 some fashion that the paper was flawed and 8 at this paper, true? 9 9 unreliable? MS. LEHMAN: Object to form. 10 A. 10 THE WITNESS: No, I didn't I don't know that I had in my 11 head the words "flawed and unreliable" on just look at this paper. I looked 11 at the papers by O'Brien too and I 12 the 22nd. I don't have that strong a 12 13 memory. But by the end of the 22nd, I 13 also looked at meta-analyses 14 would be pretty sure that I was aware by studies that considered --14 15 that time that there were problems with the 15 BY MR. TISI: 16 paper. Right, and that was a bad 16 17 17 question. Let me rephrase the question. Okay. You didn't do a 18 comprehensive evaluation or assessment of 18 Okav. 19 the causation question, did you? In other 19 Your task in this case was 20 words, whether or not talc was -- causes 20 not to offer an opinion as to whether or 21 ovarian cancer, did you? 21 not talc causes ovarian cancer, your task A. I did not do that -- I 22 was to comment on the methods and

23 conclusions in O'Brien (2024), correct?

MS. LEHMAN: Object to form.

24

23 didn't -- I was evaluating for a lower bar

24 of whether or not there was an association,

Page 58 Page 60 1 THE WITNESS: My task was to 1 Q. Why did you think it would be 2 independently review O'Brien (2024) 2 inappropriate to ask any of the authors, if and the methods used in that. 3 3 you had any questions about the methodology 4 BY MR. TISI: 4 that they used, why they did what they did, 5 Okay. And you had come, just 5 why do you think it would be inappropriate O. 6 to be clear, you had come to the conclusion 6 to actually call them and say I have some 7 that there were serious methodologic issues 7 questions, let me know. 8 in three days between the time you met the 8 A. Because I was -- it would be 9 lawyers and the time you started preparing 9 inappropriate in the same way that if I was 10 your report, true? 10 reviewing an academic paper for a journal, 11 MS. LEHMAN: Object to form. 11 it would be a really terrible thing to 12 THE WITNESS: I think that 12 contact one of the authors to start asking 13 would be typical for academic 13 them questions about the paper. That would 14 review of a paper that you would 14 be totally unacceptable. 15 generate your views within that 15 Q. Why is that unacceptable? period of time, especially if you 16 Tell me why. 16 17 spend the amount of hours that I 17 Α. Because of confidentiality of 18 did. 18 review, because it means that the reviewer 19 BY MR. TISI: 19 can be influenced by opinions. 20 Q. Okay. Now, in the three days 20 Q. Well, if you look at -- if 21 before you -- you raised numerous questions 21 you look at page 14 of Exhibit No. 8, which 22 about what the authors of -- the NIH 22 is the O'Brien study, she lists herself as 23 the O'Brien -- as the corresponding author 23 scientists who actually drafted this paper, 24 what they did, how they did it, throughout 24 and she gives her email address. Do you Page 59 Page 61 1 your report, correct? You had some 1 see that? 2 questions and concerns, true? 2 Okay. I think it's pretty A. 3 MS. LEHMAN: Object to form. 3 common in paper -- I'm going to page 8 now, 4 THE WITNESS: I certainly have 4 but, yeah, it's pretty common for there to 5 5 be a corresponding author on a paper that concerns about the methods reported 6 in the paper. 6 provides their email address. 7 7 BY MR. TISI: Q. And why do they do that, Q. In any of the three days 8 Dr. Kornak? 9 between the time you were contacted by the 9 A. Because if people are 10 lawyers and the time you started drafting 10 interested in the research, they can 11 your report, did you reach out to any of 11 contact them. 12 the NIH authors to ask them why they did 12 And you weren't really O. 13 what they did? 13 interested in the research, were you? You 14 MS. LEHMAN: Object to form. 14 didn't contact them at all at any time, 15 THE WITNESS: No, I think that 15 have you? would be inappropriate. 16 MS. LEHMAN: Object to form. 16 17 Argumentative. Asked and answered. 17 BY MR. TISI: 18 O. Well, Dr. O'Brien is listed 18 BY MR. TISI: O. Let me rephrase the question. 19 19 as the corresponding author on this study, 20 correct? 20 Dr. Kornak, between the time the lawyers 21 21 met you on the 20th and today, have you A. I would have to double-check 22 that. I know she's the first author. I 22 ever reached out to the NIH scientists to 23 ask them any questions about the research 23 didn't check if she's the corresponding 24 author. 24 that they did?

Page 62	Page 64
1 MS. LEHMAN: Object to form. 2 THE WITNESS: I have not.	1 you never contacted them to ask how they
	2 performed the quantitative bias analysis
3 Again, I would not think it's	3 reflected in the four scenarios in Table 2
4 appropriate.	4 of the O'Brien (2024) study, correct?
5 BY MR. TISI:	5 MS. LEHMAN: Object to form.
6 Q. Okay. Even though Katie	6 Asked and answered.
7 O'Brien lists herself as the corresponding	7 THE WITNESS: What I know of
8 author, and you have no reason to believe	8 about how they performed this study
9 that she would not have answered your	9 is what they reported within their
10 questions, right?	paper. And it's academically
MS. LEHMAN: Objection. Asked	expected that when you describe an
and answered.	experiment within a paper and the
13 THE WITNESS: I don't know	analysis that you performed that
14 Katie O'Brien. I don't know how	you provide enough information for
responsive she is to emails. I	that to be reproducible.
know that whenever I'm reviewing	16 BY MR. TISI:
papers, I never contact the	17 Q. Do you know so you never
18 corresponding author. I don't let	18 contacted them and asked them, for example,
them know even after the fact	19 why did you do multiple imputation as
whether or not I reviewed their	20 opposed to individual imputation as a
21 paper. I consider that to be	21 method? You never asked that question, did
22 confidential	22 you?
23 BY MR. TISI:	MS. LEHMAN: Object to form.
Q. That's a different question.	24 Asked and answered.
Page 63	Page 65
1 A and that I reviewed this.	1 THE WITNESS: I didn't ask
2 Q. That's a different question.	2 that question. I would have no
3 I'm not asking you to reach out to somebody	3 interest in asking that question,
4 during the peer-review process. This paper	4 because I don't think it's relevant
5 was published in a peer-reviewed journal on	5 to my opinions. And okay
6 May 15, right? You had some questions	6 BY MR. TISI:
7 about this paper and why they did what they	7 Q. I'm sorry, I didn't mean to
8 did. There is a corresponding author on	8 interrupt. Finish your sentence, please.
9 this paper. Did you contact them after the	9 A. I'm fine stopping there.
10 paper had been published, after all the	10 Q. Okay. For example, at the
11 criticisms and all the information about	11 end of your report, you had questions about
12 this study had been put out there for the	12 whether or not the decision to some of
13 world to see it, did you ever contact them	13 the decisions were made to do multiple
T	_
14 with any of the concerns you raise in your	14 imputation were done a priori or whether it
15 litigation report?	15 was done after the study had begun. Do you
16 MS. LEHMAN: Object to form.	16 remember those questions?
17 Asked and answered.	MS. LEHMAN: Object to form.
18 THE WITNESS: I did not and I	18 THE WITNESS: I would like to
don't think it's appropriate if my	look specifically at those
20 task is to independently review a	questions. If you want to go to
21 paper to seek out additional	21 that section of the report and
22 opinions.	22 let's do that and discuss it.
23 BY MR. TISI:	23 BY MR. TISI:
24 Q. Okay. So am I correct to say	Q. Sure. In your report, you

1	Page 66	1	Page 68
	have a section entitled "The lack of		specific prospective data to Appendix 2 and
	prespecified analysis renders the authors'		you do that in paragraph 29 of your
1	conclusions flawed and unreliable."		litigation report, true?
4	Do you see that?	4	A. Yes, I recall that. I'm
5	A. Yes, I recall that, I'm just	5	going to the paragraph now and I do recall
6 7		6	that and I firmly stand by that statement. Q. And you don't know why they,
8	•		quote, "relegated" it to the appendix, do
9	•		you?
	you, true?	10	A. I mean, I don't know what's
11	MS. LEHMAN: Object to form.		in the authors' mind other than what
12	THE WITNESS: If they had a		they've written in their paper.
13	prespecified analysis plan, it	13	Q. And you didn't ask them, did
14	should be specified, they should be		you?
15	specifying that within the paper.	15	MS. LEHMAN: Object to form.
	BY MR. TISI:	16	Asked and answered.
17	Q. But they you didn't	17	THE WITNESS: I didn't. I
	contact them, this is a criticism that you	18	don't think that would be
1	made of these authors with no knowledge,	19	appropriate.
	you didn't call them and see whether in		BY MR. TISI:
1	fact, it could have been suggested by the	21	Q. Well, there are plenty of
	peer reviewers, correct?		ways in which scientists actually raise
23	MS. LEHMAN: Object to form.	23	questions about academic papers, true?
24	· · · · · · · · · · · · · · · · · · ·	24	A. Sorry, repeat the question
	Page 67		Page 69
1	want to speculate as what the peer	1	
2	reviewers may or may not have said.	2	Q. There are plenty of ways in
3	BY MR. TISI:	3	the world of science where scientists
4	Q. But you are rendering an	4	exchange views about the relative merit
5	opinion here about that there was not a	5	MS. LEHMAN: Chris, you broke
6	prespecified analysis and you don't know	6	up. I'm not sure I got the last of
7	the answer to that question, do you?	7	that question.
8	MS. LEHMAN: Object to form.	8	BY MR. TISI:
9	Asked and answered.	9	Q. Yeah. There are plenty of
10	THE WITNESS: Well, everything	10	ways in which scientists raise questions
11	in this paper indicates a lack of a	11	about research in the normal course of
12	prespecified analysis plan. There	12	scientific endeavor, true?
13	are arbitrary choices of	13	A. Correct.
14	proportions that are corrected.	14	Q. All right. One of the ways
15	There are arbitrary levels of	15	you can do it is like we have been
16	recall bias that are performed.	16	
17	None of those are justified within	17	questions, but let's put that aside for a
18	the paper. That lack of		minute. You could write a letter to the
19	3	19	editor of this journal, true? You've seen
20	prespecified analysis plan.	20	that done.
21		21	A. You could, if that was
1 22	Q. Now, you claim, for example,	22	something you wanted to pursue, you could
22	· · · · · · · · · · · · · · · · · · ·		
23	that they relegated, and that's your term, you relegated a baseline analysis of purely	23	write a letter to the editor. It's not something that I do and I don't know of any

1	P 70		D 72
1	Page 70 of many people that do that.	1	Page 72 litigation report for which you charged
$\frac{1}{2}$	* * *		over \$50,000, true?
3	· · · · · · · · · · · · · · · · · · ·	3	MS. LEHMAN: Object to form.
-	formally to respond to your criticisms,	4	THE WITNESS: The only place I
	true? In fact, you've seen that done in	5	have commented on this paper is
	this case with O'Brien (2020) where there	6	within this report.
	is authors including, for example, Ken	7	BY MR. TISI:
	Rothman wrote a letter to the editor and	8	Q. Okay. And you were paid
9		9	\$50,000 to do it, true?
10	•	10	MS. LEHMAN: Object to form.
11	3	11	THE WITNESS: My invoice is
12	• •	12	there, I forget the exact amount,
13		13	but I think that is it.
14	•		BY MR. TISI:
15		15	Q. Let's look at it. The number
16	2		is \$50,000, correct?
17		17	A. 50,400, yeah.
18		18	Q. All right. And since that
19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		time, have you also spent time with
20			Ms. Davidson, perhaps other lawyers or
1	usually go out trying to publicly denounce		Cornerstone working on this project?
1	what other people are doing in letters to	22	A. I have spent more time
	the editor.		reviewing materials, preparing for
24			deposition.
	Page 71		Page 73
1	denouncement, okay? If you have questions	1	Q. How many hours?
	about research, you could write a letter to	2	A. I would estimate it has been,
3	•	3	I don't know, somewhere between 50 and 100
4	what they did, and you didn't do that here,	4	hours.
5	did you?	5	Q. Fifty and 100 hours in
6	MS. LEHMAN: Objection. Asked	6	addition?
7	and answered.	7	A. Yeah, I think so.
8	THE WITNESS: I did not write	8	Q. Okay. And so at your rate of
9	a letter to the editor. I did not	9	\$700 an hour, what would that be?
10	email the authors. I did not think	10	A. If it was 100 hours, it would
10		11	be 70,000.
10	those things were appropriate for	11	<i>be</i> 70,000.
	· · · · · · · · · · · · · · · · · · ·	11	Q. Okay. So to be fair and just
11	me to do. I had a certain amount	12	,
11 12	me to do. I had a certain amount of time that I wanted to	12 13	Q. Okay. So to be fair and just
11 12 13	me to do. I had a certain amount of time that I wanted to independently review the paper,	12 13 14	Q. Okay. So to be fair and just to be clear, the only place you have
11 12 13 14	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I	12 13 14 15	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here
11 12 13 14 15	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the	12 13 14 15	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper,
11 12 13 14 15 16 17 18	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that,	12 13 14 15 16 17 18	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper, the opinions you offer here are pretty strong opinions, true? A. Yeah, I stand by my opinions.
11 12 13 14 15 16 17 18 19	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions	12 13 14 15 16 17	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper, the opinions you offer here are pretty strong opinions, true?
11 12 13 14 15 16 17 18	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions about what's in the paper.	12 13 14 15 16 17 18	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper, the opinions you offer here are pretty strong opinions, true? A. Yeah, I stand by my opinions. Q. Okay. But they're pretty strong, these aren't peripheral kinds of
11 12 13 14 15 16 17 18 19 20 21	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions about what's in the paper. BY MR. TISI:	12 13 14 15 16 17 18 19	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper, the opinions you offer here are pretty strong opinions, true? A. Yeah, I stand by my opinions. Q. Okay. But they're pretty strong, these aren't peripheral kinds of criticisms, these are really strong
11 12 13 14 15 16 17 18 19 20 21 22	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions about what's in the paper. BY MR. TISI: Q. All right. And the only	12 13 14 15 16 17 18 19 20 21 22	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper, the opinions you offer here are pretty strong opinions, true? A. Yeah, I stand by my opinions. Q. Okay. But they're pretty strong, these aren't peripheral kinds of criticisms, these are really strong methodologic allegations you make on these
11 12 13 14 15 16 17 18 19 20 21 22 23	me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions about what's in the paper. BY MR. TISI:	12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. So to be fair and just to be clear, the only place you have ever I mean, the opinions you offer here as a scientist about a particular paper, the opinions you offer here are pretty strong opinions, true? A. Yeah, I stand by my opinions. Q. Okay. But they're pretty strong, these aren't peripheral kinds of criticisms, these are really strong

	Page 74		Page 76
1	A. They are appropriate	1	analysis. I just want to be clear,
$\frac{1}{2}$	criticisms.	2	I'm not criticizing individuals.
3	Q. Okay. They're strong		BY MR. TISI:
4	criticisms. If you got a criticism	4	Q. I understand. So I'm
5	A. No, no, I don't sorry, I		sorry you are making a very strong
6			criticism in very strong terms of the
7	ahead.		methods used by these NIH scientists in
8	Q. Well, then let me ask you		publishing this peer-reviewed paper, true?
9	this question, if you got a criticism like	9	MS. LEHMAN: Object to form.
10		10	THE WITNESS: I'm criticizing
11	· ·	11	the methods they use. I'm not
12	MS. LEHMAN: Object to form.	12	going to characterize it with the
13	THE WITNESS: I mean, I would	13	word "strong," that
14	consider it to be a criticism.		BY MR. TISI:
15	What the way you would exactly	15	Q. Well, you used the words
16	draw the line between strong and		"flawed," "unreliable," "vacuous,"
17	not strong in academic criticism, I		"contrived," I mean, those are your words
18	don't know exactly how to specify,		in your report, true?
19	but I certainly criticize and think	19	A. But you're just taking the
20	there are problems with the		words may be in my report in some way, but
21	approach.		you're taking them out of context and
$\begin{vmatrix} 21\\22\end{vmatrix}$	BY MR. TISI:	22	Q. I understand but those are
23	Q. Well, in this report, I'm		I'm sorry. I'm talking over you. I don't
	going to say you used the word, the phrase		mean to. Those are words that you use to
			·
	Page 15		
1 1	Page 75 "flawed and unreliable" over 20 times. And	1	Page 77
1 2	"flawed and unreliable" over 20 times. And		describe various aspects of their analysis,
2	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report,	2	describe various aspects of their analysis, true?
2 3	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous,	2 3	describe various aspects of their analysis, true? MS. LEHMAN: Object to form.
2 3 4	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating.	2 3 4	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered.
2 3 4 5	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that?	2 3 4 5	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to
2 3 4 5 6	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form.	2 3 4	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one
2 3 4 5 6 7	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those	2 3 4 5 6 7	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that
2 3 4 5 6 7 8	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those are used in the paragraph, but	2 3 4 5 6 7 8	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that word is being used, and I'm happy
2 3 4 5 6 7 8 9	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those are used in the paragraph, but they're not used as you stated	2 3 4 5 6 7 8 9	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that word is being used, and I'm happy to do that if you want to walk
2 3 4 5 6 7 8 9 10	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those are used in the paragraph, but they're not used as you stated them.	2 3 4 5 6 7 8 9	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that word is being used, and I'm happy to do that if you want to walk through each of the sentences
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2 3 4 5 6 7 8 9 10 11 12 13 14	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those are used in the paragraph, but they're not used as you stated them. BY MR. TISI: Q. Okay. My point is, Doctor, and I'm really trying to get to 20,000 per year. Okay. This is a very strong report	2 3 4 5 6 7 8 9 10 11 12 13 14	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that word is being used, and I'm happy to do that if you want to walk through each of the sentences BY MR. TISI: Q. We're going to. A rather than your general statement on those words. So we can
2 3 4 5 6 7 8 9 10 11 12 13 14 15	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those are used in the paragraph, but they're not used as you stated them. BY MR. TISI: Q. Okay. My point is, Doctor, and I'm really trying to get to 20,000 per year. Okay. This is a very strong report where you use very strong language and very	2 3 4 5 6 7 8 9 10 11 12 13 14 15	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that word is being used, and I'm happy to do that if you want to walk through each of the sentences BY MR. TISI: Q. We're going to. A rather than your general statement on those words. So we can Q. We're going to. But let me
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	"flawed and unreliable" over 20 times. And if you go to paragraph 74 of your report, you call this analysis contrived, vacuous, and overstating. Do you see that? MS. LEHMAN: Object to form. THE WITNESS: I think those are used in the paragraph, but they're not used as you stated them. BY MR. TISI: Q. Okay. My point is, Doctor, and I'm really trying to get to 20,000 per year. Okay. This is a very strong report where you use very strong language and very strong criticisms of these NIH scientists who published a paper in a peer-reviewed	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	describe various aspects of their analysis, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: I would need to go through each sentence one by one to sort of explain to you how that word is being used, and I'm happy to do that if you want to walk through each of the sentences BY MR. TISI: Q. We're going to. A rather than your general statement on those words. So we can Q. We're going to. But let me ask you as an overall thing. If you had received from one of your colleagues a
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1 use the word "strong." I mean,	1 this case, has it?
2 again	2 A. I don't know who has and who
3 BY MR. TISI:	3 hasn't seen my report.
4 Q. Okay. Then let's take the	4 Q. You haven't presented it.
5 word	5 You haven't sent it to anybody outside of
6 A. I take criticism, sometimes	6 this case, have you?
7 it hurts, but overall, it tends to be	7 A. No, I think I shouldn't from
8 constructive in academia for the positive	8 a confidentiality perspective and that's
9 even if it hurts sometimes.	9 another reason I don't think I should have
10 Q. Okay. But this isn't an	10 contacted the authors of the paper or
11 academic report, is it? This is a	11 anything like that. I think that would be
12 litigation report, true?	12 inappropriate.
13 A. I thought we were talking	13 Q. Nothing prevents you from
14 about the paper as a report, sorry	14 speaking to your students at UCSF and
15 Q. I'm asking you	15 saying, you know, I'm going to illustrate
16 A. A criticism of a report,	16 to you the kinds of methodologic flaws that
17 that's what we're talking about. Like, you	17 can come from an improper biostatistic
18 were talking about criticism of a report	18 analysis and let me use this paper as an
19 that I had wrote of some kind. I assumed	19 example. You've never done that, have you?
20 you were talking about the paper, so I just	20 A. Well, I mean I think it's
21 want to clarify.	21 first of all, a physical impossibility,
Q. Okay. If you had received	22 because I was retained on this case on
23 let's take it in ones, right? If you had	23 May 20 and, you know, I haven't been doing
24 received a criticism like you prepared of	24 any teaching since then, I haven't been in
Page 79	Page 81
1 one of your papers, would you consider that	1 touch with students. But I would also
2 to be serious?	2 still respect the confidentiality aspect
3 MS. LEHMAN: Objection. Asked	3 that I don't know exactly where the line is
4 and answered.	4 as to when you're breaking confidentiality
5 THE WITNESS: I mean, I don't	5 or not, so I err on the side of safety and,
6 know why you're looking for a	6 yes, I don't discuss with anyone or
7 qualifying word here, but if	7 anything. So if it's a paper why would
8 there's criticism, I take	8 I choose why would I not just go to
9 criticism. Sometimes it hurts.	9 another paper that is completely unrelated
That's a feeling that you have	10 and I don't take any risk of breaking
whenever you're criticized for your	11 confidentiality. That would be my
academic work or other work. But,	12 thinking.
in general, I find that it's a	13 Q. And
positive thing to learn from criticism.	MS. LEHMAN: And Chris, Chris, I don't mean to interrupt you, but
15 criticism. 16 BY MR. TISI:	1 7
	when you get to a good stopping point, can we take a bathroom
17 Q. Okay. Now, your report was	point, can we take a bathroom break?
18 not intended to engage these authors in an 19 academic exercise, was it, it was a	19 BY MR. TISI:
20 litigation report, true?	20 Q. Sure. No problem. So you
21 A. Yes, it's a litigation	21 think because you were retained as an
22 report, yeah.	22 expert in litigation, that removes you from
23 Q. And it has not been presented	23 commenting on this paper in any scientific
24 to any scientist outside of the lawyers in	24 form, is that what you're saying?
27 to any scientist outside of the lawyers in	27 Torm, is that what you're saying:

	Daga 92		Page 84
1	Page 82 A. No, I'm not saying that. I	1	date.
	think I said clearly before that I don't	2	Q. Is there anything that needs
	know where the line is and so I opt to		to be added to it in order for us to fully
	respect confidentiality as much as	l .	understand your professional background and
5	possible.	5	experience particularly as it relates to
6	Q. Did you ask? Did you ask the	6	the issues in this case?
7	lawyers and say, you know, this paper is	7	A. I don't think so.
8	particularly egregious and I want to	8	Q. Okay. Are you an
9	present it out there so that nobody relies		epidemiologist?
10	- ·	10	A. No, I'm a biostatistical
	you?		expert, but I have a lot of experience in
12	MS. LEHMAN: And I'm just		epidemiological areas.
13	going to object and instruct	13	Q. What is the difference
14	Dr. Kornak that to the extent he's		between a biostatistician and an
15	talking about communications with		epidemiologist?
16	the lawyers, he can talk about	16	A. I think it's a difficult
17	facts and data that he considered		
18	in rendering the report, but		biostatistician is generally more focused
19	otherwise, I'm going to instruct		on the computation methods for analyzing
20	that communications with the		data and for understanding data whereas the
21	lawyers are privileged and		epidemiologist tends to be more focused on
22	confidential.	l .	kind of typically a more specific clinical
23	MR. TISI: What they say to	l .	area and have an interest there.
24	him is privileged and confidential.	24	Q. The epidemiologist is more
	Page 83		Page 85
1	Have you asked anyone if you can	1	involved with the actual interpretation of
2	criticize this outside of	2	the data and putting it in context with
3	litigation?	3	what is with the body of medical and
4	THE WITNESS: I'm just going	4	scientific literature, true?
5	to repeat my answer, I err on the	5	A. I wouldn't say they're more
6	side of confidentiality, so I	6	involved with the interpretation of the
7	was did not talk to additional	7	data. They're definitely, I would agree,
8	people.	8	that within a particular clinical area, if
9	MR. TISI: Okay. All right.	9	that's where they're working, they would be
10	Let's take a quick break.		more knowledgeable on placing the research
11	THE WITNESS: Thank you.		in that area, but interpretation of data is
12			very much biostatistical.
13	(A recess was taken at this time.)	13	Q. Let me ask you this way. If
14			an epidemiologist and biostatistician are
	BY MR. TISI:		cowriting an original epidemiologic study
16	Q. All right. Dr. Kornak, we		either, for example, a case control study
	have been provided with your CV, which I've		or a cohort study, what would the typical
	had marked as Exhibit No. 2. If you pull		respective roles of the biostatistician be
	that out, please.		in relationship to the epidemiologist?
20	A. Yes.	20	A. I would say that really
21	Q. Does your CV accurately	21	depends and can vary quite a lot. I mean,
	reflect your professional experience?		it varies a lot.
23	A. I would say to a large extent, yes, a couple of things are out of	23	Q. Well, give me a sense, give me a sense of the range? I mean, if you
1 ~ 4	antant rias a sarrala attlevasa ana arit af	11/	ma a conce at the manage! I mean if you

Page 8	_
1 were explaining to your students, and let's	1 A. Imaging and non-imaging
2 say you were co-teaching with an	2 perspective.
3 epidemiologist, how would you define your	3 Q. Right, but the primary focus,
4 respective roles in writing a paper?	4 and you may have touched on issues relating
5 A. So it can range from, I'm	5 to, for example, breast cancer, but your
6 being very loose here, but it can range	6 primary focus was on imaging for tumors, et
7 from as a biostatistician that it could be	7 cetera, correct?
8 a very straightforward consulting role on a	8 MS. LEHMAN: Object to form.
9 project where there's data that has already	9 THE WITNESS: I don't think
10 been collected and needs to be analyzed and	touched on is a good description of
11 the statistician would take that data and	sort of my involvement with breast
12 analyze it appropriately and then help with	12 cancer.
13 the writing of the paper maybe in the	13 BY MR. TISI:
14 results section and the methods section and	14 Q. Well, have you ever, for
15 so on. That's kind of down at one end. At	15 example, done a study that studies risk
16 the upper end, it can be that the	16 factors for where the primary goal of
17 statistician is right there helping with	17 the study was to discover risk factors for
18 the experimental design, helping with	18 breast cancer?
19 thinking about how to recruit individuals	19 A. Yes.
20 with minimal bias. All of those pieces	Q. Okay. How about ovarian
21 that I said that they would do in a	21 cancer, have you ever published in the area
22 consulting role, but they would be much	22 of ovarian cancer?
23 more involved and interested in the	A. I don't recall any of my
24 research on their own behalf too.	24 publications being specifically ovarian
Page 8	Page 89
Page 8 1 Q. So would it be fair to say	Page 89 1 cancer. Just cancer in general, many
1 Q. So would it be fair to say	1 cancer. Just cancer in general, many
1 Q. So would it be fair to say 2 that, generally speaking, the	1 cancer. Just cancer in general, many2 areas, but not ovarian cancer.
1 Q. So would it be fair to say 2 that, generally speaking, the 3 epidemiologist as opposed to the 4 biostatistician would be more concerned	 cancer. Just cancer in general, many areas, but not ovarian cancer. Q. Have you ever designed a study or helped design a study where there
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1 Q. So would it be fair to say 2 that, generally speaking, the 3 epidemiologist as opposed to the 4 biostatistician would be more concerned 5 with being specific to this case how to 6 deal with issues of recall bias? 7 A. No, I don't agree. 8 Q. Okay. All right. Now, 9 looking at your CV read as a whole, and I 10 did read it, I can't say I understood every 11 word, but I did read it, I would say it 12 seems the focus in your academic work is 13 with imaging; is that correct? 14 A. I think there are multiple 15 areas that are and have been the focus of 16 my research. Imaging has certainly always 17 been there. Medical imaging specifically. 18 With applications, I mean, breast cancer 19 has been a sort of central theme of my 20 research over many years, in particular 21 related to medical imaging and the study of	1 cancer. Just cancer in general, many 2 areas, but not ovarian cancer. 3 Q. Have you ever designed a 4 study or helped design a study where there 5 was a focus of trying to determine whether 6 or not a particular risk factor or 7 combination of risk factors were are 8 responsible for ovarian cancer? 9 A. Again, I don't recall any 10 studies I have been involved in related to 11 ovarian cancer, so, therefore, the answer 12 to your question would be no. 13 Q. Do you have any articles 14 which in any way bear on any issue relating 15 to talc? 16 A. I'm pretty sure I don't have 17 anything on talc. 18 Q. Prior to this case about a 19 month ago, had you ever read literature 20 relating to talc and ovarian cancer? 21 A. I don't recall reading that. 22 Q. You don't recall reading any?
1 Q. So would it be fair to say 2 that, generally speaking, the 3 epidemiologist as opposed to the 4 biostatistician would be more concerned 5 with being specific to this case how to 6 deal with issues of recall bias? 7 A. No, I don't agree. 8 Q. Okay. All right. Now, 9 looking at your CV read as a whole, and I 10 did read it, I can't say I understood every 11 word, but I did read it, I would say it 12 seems the focus in your academic work is 13 with imaging; is that correct? 14 A. I think there are multiple 15 areas that are and have been the focus of 16 my research. Imaging has certainly always 17 been there. Medical imaging specifically. 18 With applications, I mean, breast cancer 19 has been a sort of central theme of my 20 research over many years, in particular 21 related to medical imaging too, but also	1 cancer. Just cancer in general, many 2 areas, but not ovarian cancer. 3 Q. Have you ever designed a 4 study or helped design a study where there 5 was a focus of trying to determine whether 6 or not a particular risk factor or 7 combination of risk factors were are 8 responsible for ovarian cancer? 9 A. Again, I don't recall any 10 studies I have been involved in related to 11 ovarian cancer, so, therefore, the answer 12 to your question would be no. 13 Q. Do you have any articles 14 which in any way bear on any issue relating 15 to talc? 16 A. I'm pretty sure I don't have 17 anything on talc. 18 Q. Prior to this case about a 19 month ago, had you ever read literature 20 relating to talc and ovarian cancer? 21 A. I don't recall reading that.

	Page 90		Page 92
1	Q. So the first time you ever	1	issues or do you not know?
2		2	A. Well, I know from what I've
3	ovarian cancer was on the 20th of May 2024	l	seen in relation to this report that
	when the lawyers contacted you in this		there's also uterine cancer and breast
5	case?	l	cancer was considered for the Sister Study.
6	MS. LEHMAN: Object to form.		I believe the question there was more
7	THE WITNESS: So I can't be		the questionnaires have been more extensive
8	100 percent sure. I don't know if		than just looking at talc use, but I
9	I saw any news articles on it,		wouldn't say that I'm knowledgeable on
10	sometimes when I'm reading a		everything that has come out.
11	newspaper, but specifically an	11	Q. Yeah. I mean, just to be
12	academic article on the specifics	12	clear, you are not familiar other than
13	of talc use related to ovarian		the talc and ovarian cancer papers
14	cancer, I think the answer is no.		identified in your report, you have not
15	BY MR. TISI:	15	sought to familiarize yourself with the
16	Q. Okay. And so just to be	16	papers and body of literature that have
17	100 percent clear so we have a clear answer	17	come out of the Sister Study, true?
18	to this question, before May 20, 2024, you	18	A. I mean, I sought out papers
19	have never read an academic article	19	related to the Sister Study, because
20	relating to the relationship between	20	they're related to O'Brien (2024) and my
21	ovarian cancer and talcum powder, true?	21	Q. Right.
22	A. I don't recall reading any	22	A. And I was to independently
23	such paper at any time.	23	review that. So to the extent that they
24	Q. Okay. Prior to this case,	24	were related to O'Brien (2024) is what I
	Page 91		Page 93
1	have you read any literature coming out of	1	was seeking out.
	the Sister cohort study?	2	Q. Doctor, this isn't a trick
3	A. I don't believe so.	3	question. I'm asking you other than the
4	Q. Okay. Do you understand that	4	papers that are identified in your report,
1	in terms of cohorts and the study of cancer		have you sought to familiarize yourself
1	that the Sister Study is an important		generally with the Sister Study and the
1	study?	l	research that has come out of it?
8	MS. LEHMAN: Object to form.	8	MS. LEHMAN: Objection.
9	BY MR. TISI:	9	THE WITNESS: I think the
10	Q. Well, let me rephrase the	10	materials cited in my report that
1	question. Do you understand that amongst	11	that's my that was a good faith
117	people who actually study cancer risk	12	attempt to representing everything
1	factors that the Sister Study cohort is a	13	I reviewed. I may have gone to the
13	•	1 4	
13 14	particularly important cohort?	14	website for the Sister Study, but I
13 14 15	particularly important cohort? MS. LEHMAN: Object to form.	15	don't recall for sure.
13 14 15 16	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know	15 16	don't recall for sure. BY MR. TISI:
13 14 15 16 17	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is	15 16 17	don't recall for sure. BY MR. TISI: Q. Have you ever written on
13 14 15 16 17 18	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is particularly important versus not	15 16 17 18	don't recall for sure. BY MR. TISI: Q. Have you ever written on imputation, either single or multiple, in a
13 14 15 16 17 18 19	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is particularly important versus not particularly important, but there	15 16 17 18 19	don't recall for sure. BY MR. TISI: Q. Have you ever written on imputation, either single or multiple, in a methods paper? In other words, not as part
13 14 15 16 17 18 19 20	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is particularly important versus not particularly important, but there are clearly multiple papers about	15 16 17 18 19 20	don't recall for sure. BY MR. TISI: Q. Have you ever written on imputation, either single or multiple, in a methods paper? In other words, not as part of a methods of a study, but in terms of
13 14 15 16 17 18 19 20 21	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is particularly important versus not particularly important, but there are clearly multiple papers about the Sister Study.	15 16 17 18 19 20 21	don't recall for sure. BY MR. TISI: Q. Have you ever written on imputation, either single or multiple, in a methods paper? In other words, not as part of a methods of a study, but in terms of talking about that imputation as a method
13 14 15 16 17 18 19 20 21 22	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is particularly important versus not particularly important, but there are clearly multiple papers about the Sister Study. BY MR. TISI:	15 16 17 18 19 20 21 22	don't recall for sure. BY MR. TISI: Q. Have you ever written on imputation, either single or multiple, in a methods paper? In other words, not as part of a methods of a study, but in terms of talking about that imputation as a method for dealing with missingness?
13 14 15 16 17 18 19 20 21 22 23	particularly important cohort? MS. LEHMAN: Object to form. THE WITNESS: I don't know what defines whether something is particularly important versus not particularly important, but there are clearly multiple papers about the Sister Study.	15 16 17 18 19 20 21	don't recall for sure. BY MR. TISI: Q. Have you ever written on imputation, either single or multiple, in a methods paper? In other words, not as part of a methods of a study, but in terms of talking about that imputation as a method

Page 94 Page 96 1 where you actually talk about multiple 1 The last one was about methods and now 2 imputation or single imputation as a method 2 you're asking just about whether I address 3 for dealing with missingness? 3 any of the issues related to --4 So it's in my papers related 4 Q. No, no, what I'm asking, 5 to the Bayesian reconstruction of magnetic 5 let's stay focused on imputation for 6 resonance --6 dealing with missingness. Okay. You know, 7 7 I looked at -- I read your report, I looked THE STENOGRAPHER: Wait a 8 at your -- the things that you've cited, 8 minute, the what reconstruction? 9 9 your footnotes, and I don't see any of your THE WITNESS: Bayesian, 10 B-A-Y-E-S-I-A-N. 10 own literature used to support any of the 11 general propositions about, for example, 11 BY MR. TISI: 12 missing imputation by chain equations or 12 Q. And maybe I wasn't clear 13 about my question. My question was not 13 MICE. Or missing not at random or missing 14 whether or not you discussed it in the 14 completely at random or missing at random, 15 context of a paper in which you were 15 MCAR, I've not seen any of your own 16 looking at something else --16 research cited in support of your opinions, 17 No, it's developing missing 17 you've cited other people, but I have not 18 data, missing data approach. 18 seen your own. Have you had any papers 19 19 which deal directly with the issues of O. Okay. 20 It's developing a method. 20 imputation that you spend the majority of A. 21 It's not -- I'm just not implementing a 21 your report dealing with? 22 method. 22 Again, there are papers that 23 23 have something related to imputation in And can you tell me which of Q. 24 your articles in your CV that was? And I 24 them. I didn't choose them as -- they're Page 95 Page 97 1 don't want to take forever to do it, but if 1 not the most appropriate references to cite 2 for supporting my opinions. 2 you can identify which one or ones, that 3 would be helpful. 3 That's what I'm trying to get So this would be -- I'm going 4 at here is, for the purposes of the 5 back a ways. So publication 32 and I think 5 opinions you're offering in this case about 6 publication 29. So these used the idea of 6 imputation, you have not written 7 Bayesian methods for imputing data. So 7 independently in the academic literature 8 you're imputing data to higher resolution 8 about those methods specifically? 9 9 of the image. MS. LEHMAN: Object to form. 10 10 THE WITNESS: I think Okay. So the reason I'm 11 asking, Doctor, and I'm not playing hide 11 specifically I have written about 12 and seek with you here on this, you don't 12 those methods, to what extent is 13 cite any of your published literature in 13 another question. And I would have 14 support of the opinions you give about the 14 spend a lot of time going through 15 appropriateness of the imputation 15 my papers to figure that out. 16 methodology used by these authors. Have 16 BY MR. TISI: 17 you ever addressed in any of your published 17 Q. But none pop in your mind 18 work any of the issues that you are opining 18 right now? 19 on in this case? 19 MS. LEHMAN: Object to form. 20 A. I mean, I definitely have 20 THE WITNESS: I mean, I know 21 addressed questions about imputation in 21 there are papers in there that 22 publications. I would struggle to pinpoint consider missing data. I mean, 22 23 which ones, but this -- you're now asking a 23 that's just -- and these are 24 completely different question, I believe. 24 statistical methods, some of them

1	Page 98	1	Q. It's throughout your report.
2	have been around for a long, long	_	Q. It's throughout your report. So let me ask you this opinion. Is it your
	time and bias, as an expert		
3	biostatistician, I understand those	3	1 1
4	methods and when they are		imputation let me rephrase it another
5	appropriate to be used in different		way.
6	problems.	6	Is it multiple imputation a
7	BY MR. TISI:		recognized statistical method to deal with
8	Q. I'm not suggesting you don't		missing data in an epidemiologic study?
	understand them, not at this point. My	9	A. Multiple imputation is a
l	question is have you ever written on them		recognized approach to dealing with missing
11	generally in a methods paper?		data, but it depends on the missing data
12	A. Again		itself to what extent it's appropriate to
13	Q. I don't see any I don't		use it.
	see any I don't see any the reason	14	Q. Understood. And we're going
15	why I'm saying that, Doctor, is I don't see	15	to talk about that, but if anyone were to
16	you citing any of your own academic	16	read your report and say, yeah, that
17	research in support of your opinions. And	17	multiple imputation is like voodoo where
18	I would have assumed that if you had	18	people are just using fancy terms to guess
19	written on the topic, you would have cited	19	at data, that's not true, is it?
20	your own research and you didn't. So can	20	MS. LEHMAN: Object to form.
	you explain that?	21	THE WITNESS: I would say in
22	MS. LEHMAN: Objection. Asked	22	general, multiple imputation when
23	and answered.	23	applied properly, no, it's not
24	THE WITNESS: Well, I would	24	voodoo, but, however, I think how
	Page 99		Page 101
1	not make that assumption of	1	it's applied here, if you want to
2	somebody that just because they've	2	use a pejorative term like you did,
3	written on a topic that they're	3	you might say it is kind of voodoo,
4	going to prioritize writing	4	because it's a level of making
5	their referencing their paper.	5	things up here, yeah.
6	I mean, maybe people do that, I		BY MR. TISI:
7	don't know, but I don't think of it	7	Q. But, generally speaking, and
8	as being a good academic approach.		I'm going to move to strike the
9	As an academic, I want to cite the		nonresponsive part of your answer, because
10	most relevant literature to what it		we're going to talk about what the authors
11	is I'm trying to explain.		did. If anyone were to walk in court and
	BY MR. TISI:		say that multiple imputation is not a
13	Q. And, for example, one of		recognized statistical method for dealing
	the well, we'll talk about that later,		with statistical data, they would be wrong,
	never mind.		true?
16		16	
	You've called imputation		MS. LEHMAN: Object to form. Asked and answered.
	throughout this report a guess. It's not a	17	
	guess, is it?	18	THE WITNESS: Multiple
19	A. I would like you to point me	19	imputation is one recognized
	to where I refer to imputation as a	20	technique for approaching what is
	guess	21	the problem of having missing data.
22	Q. Let them		BY MR. TISI:
23	A it depends on what I	23	Q. Okay. And it is recognized
24	stated.	24	in the biostatistic and epidemiologic

	PageID: 22	152	9
	Page 102		Page 104
1	community as a way not to guess at data,	1	designed a program in health data science
	correct?	2	that has a large component about missing
3	MS. LEHMAN: Object to form.	3	data. So in that sense, I've written about
4	BY MR. TISI:	4	it, but if you're talking about in academic
5	Q. It's a method that	5	peer-reviewed publications, I haven't
6	A. That is not that is not	6	provided a commentary on that.
7	correct.	7	Q. Okay. Have you are you
8	Q. Okay. Let me rephrase the	8	familiar with any literature that would
9	question. It's a method for using existing	9	support your position that multiple
10	data to predict what the answer would have	10	imputation would not be used for the
11	been had the question been answered, true?	11	primary predictor?
12	A. No.	12	A. I don't recall any specific
13	Q. Okay. Tell me what it does.	13	document offhand. This would just be sort
14	A. What it does is the idea is	14	of, like, conventional sort of
15	you have data, the dataset is incomplete in	15	biostatistical thinking, based on my
16	some way, and you then have to make a	16	experience and knowledge as a
17	decision to make a trade-off between is it	17	biostatistician. I'm sure it's discussed
18	worth trying to do some kind of imputation	18	in textbooks, but I can't point you to a
19	with the data, but at the same time, you	19	specific textbook.
20	want to guard that you're not doing more	20	Q. And you can't think of a
21	harm than good when you do the imputation.	21	textbook or an article which talks about
22	Q. Right.	22	when the boundary line of when you use
23	A. So you were talking specific	23	multiple imputation with respect to the
24	you mentioned imputing something	24	variables that you're studying, true?
	Page 103		Page 105
1	specific I think related to, like, the	1	A. Oh, no, I can. I mean,
2	primary predictor of exposure or something.	2	Rubin's book on multiple imputation
3	But here where multiple imputation can help	3	certainly talks about when, like, things
4	in particular is when you have variables	4	with respect to being missing completely,
5	that are not providing much information	5	at random, missing at random, missing not
6	directly to the primary outcome, but you	6	at random, other textbooks in the field
7	don't want to throw the whole set of	7	surely talk about that too.
8	information away from a subject, and so	8	Q. Right. But that book, using

9 you, you kind of, it becomes a trade-off 10 where you say I would risk the imputation 11 of that data point in order to get the 12 extra bit of data --13 Q. But you don't --14 -- of everything on that 15 individual. But that's usually the 16 thinking on multiple imputation, not on 17 trying to impute your most important 18 predictors when there's a lot of missing 19 data. 20 So is there any -- well, 21 first of all, have you ever written on how 22 to deal with missingness in epidemiologic 23 studies?

To the extent where -- I have

9 that as an example, doesn't say that you 10 only -- you do not use multiple imputation 11 with respect to the primary outcome that 12 you're studying, true? 13 I would just simply say 14 that's a qualified true, but there is no 15 sort of black and white boundary on when 16 you are overdoing these things versus not 17 overdoing these things. There is, like I 18 said originally, a trade-off between what 19 you want to impute and what the benefits 20 might be. 21 A common practice though is 22 to rerun analyses where whenever you are 23 kind of even nervous about the imputation

24 influencing your results, that you will run

A.

24

1	Page 106 with and without imputation as a	1	Page 108 MS. LEHMAN: Objection. Asked
	sensitivity analysis and check that your	2	and answered.
	results have not been greatly affected by	3	THE WITNESS: Those methods
	your imputation approach. That's a common	4	applied in certain situations have
	practice and	5	been criticized many times over.
6	*	6	BY MR. TISI:
7		7	Q. Okay. Well, you tell me who,
1	you this. The authors were very clear up	· '	tell me who has criticized O'Brien (2024)?
	front as to why they were using the	9	A. I didn't say anybody
	imputation methods to try to predict when		criticized O'Brien (2024). I said that
	people were actually women were actually		those methods when used inappropriately
	using tale when that information was		have been criticized many times over.
	missing in the follow-up questionnaire,	13	
	true?		Q. So listen to my question, if you don't mind, okay? This paper was
15			published in the peer-reviewed journal on
	& 5		
	it was right or wrong, I'm asking you, they laid it out there for the whole world to	17	•
1		18	MS. LEHMAN: Object to form.
	see, correct?		THE WITNESS: My understanding
19	3 3	19	is that the authors of the paper
	were going to impute exposure status, yes.	20	work at the NIH. My understanding
21	Q. Correct. And that went	21	is that this paper was published and so and that it's a
23	through peer review, true?	22	
	,	23	peer-reviewed journal, so.
24	it did. I can't understand how they	24	
1	Page 107 must have not had biostatistical review,	1	Page 109 BY MR. TISI:
	because that was amazing that that got	2	Q. So the answer to my
$\frac{2}{3}$			question
4		4	A. Peer reviewed is not a
	and we're going to talk about this, but to	5	perfect process, so
	your knowledge, not a single scientist	6	Q. The answer to my question
	outside of this litigation has criticized		was, yes, it was published by NIH
	in any way the imputation used by these		scientists on May 15 in a peer-reviewed
9			journal, true?
10		10	MS. LEHMAN: Objection. Asked
11	,	11	and answered.
12		12	THE WITNESS: Yes, it was
13	• 1	13	published in a peer-reviewed
14		14	journal.
15			BY MR. TISI:
	BY MR. TISI:	16	Q. Okay. And from May 15, it is
17			now mid July, okay, have you seen any
	and I apologize if I was unclear. I said		public criticisms in the academic
	other than experts in this litigation who		literature other than by people hired by
	have been hired by Johnson & Johnson, and		Johnson & Johnson and made a lot of money?
± 20	paid a lot of money, not a single scientist	20 21	MS. LEHMAN: Object to form.
	para a for of money, not a single scientist	41	
21	outside of this litigation has criticized	าา	THE WITNESS: I have not but
21 22	outside of this litigation has criticized	22	THE WITNESS: I have not, but
21 22 23	outside of this litigation has criticized the O'Brien (2024) imputation methods, have they, to your knowledge?	22 23 24	THE WITNESS: I have not, but I would be absolutely stunned if anything made it through the

1	Page 110	1	Page 112 have been written regarding talc and
$\frac{1}{2}$	peer-review process so quickly		9 9
2	between the paper being published and now. Academic literature		ovarian cancer from the Sister Study
3			cohort, correct?
4	doesn't tend to move that fast.	4	A. Yes.
5	BY MR. TISI:	5	Q. And you refer to several of
6	Q. Okay. But so the answer to	6	them, one would be Gonzalez 2016, which
7	1	7	would have been about six and a half years
8	j j	8	3
9			Exhibit No. 18 in your book.
	paper in a conference, at a meeting, in a	10	MS. LEHMAN: Object to form.
1	conference call, in a letter to the editor,	11	THE WITNESS: I think it's a
	in an editorial, in a paper, anywhere other	12	little bit longer than that, right,
	than Johnson & Johnson's paid experts,	13	2016 from 2003, that would be about
14	true?	14	13 years later.
15	MS. LEHMAN: Object to form.	15	
16	THE WITNESS: I'm just I	16	(Gonzalez Study marked
17	don't I have not seen anything	17	Kornak Exhibit 18 for
18	myself. I just independently	18	identification.)
19	reviewed the paper and my opinions	19	
20	are that it's flawed and	20	BY MR. TISI:
21	unreliable.	21	Q. Right. But they used, they
22	BY MR. TISI:	22	used data that was about 6.6 years in
23	Q. Okay. Now, let's talk about		follow-up, do you remember?
24	those NIH authors in which you said you are	24	MS. LEHMAN: Object to form.
	Page 111		Page 113
1	not criticizing them in particular, true?	1	THE WITNESS: Well, they had a
2	A. I am not criticizing them	2	median follow-up of 6.6 years.
3	_	3	- · · · · · · · · · · · · · · · · · · ·
4	Q. Well, professionally, are you	4	Q. Okay. And you also
5	criticizing them?	5	A. Something like that.
6	MS. LEHMAN: Object to form.	6	Q looked at a pooled
7	THE WITNESS: Well, I'm		study by and O'Brien herself was part of
8	criticizing them professionally in		the Gonzalez study in 2016, correct?
9	terms of this work that in terms	9	A. Yes, she's the second author
10	of the paper that they wrote, yes.		on that paper.
11	· · · · · · · · · · · · · · · · · ·	11	Q. And there was also a pooled
12	Q. All right. So let's go, if		study of cohorts, O'Brien (2020), which is
			•
	you don't mind going to Exhibit No. 8,		in your book as Exhibit 25? A. Yes, that's correct.
1	which is O'Brien (2024).	14	A. Yes, that's correct.
15	•	15	(OID sing (2020) Stand
16		16	(O'Brien (2020) Study marked
17	1 1	17	Kornak Exhibit 25 for
	over 50,000 people, we talked about this,	18	identification.)
1	over 50,000 women were enrolled and the	19	DIVIND WISH
	study is about 15 years old, correct?		BY MR. TISI:
21	A. It seems like the study	21	Q. All right. O'Brien is also
	started collecting data in 2002, so I would	22	on that study, correct?
22	started collecting data in 2003, so I would		•
22	say that's, like, 22 years old.	23	A. Yes, she's the first author on that one.

Page 114	Page 116
1 Q. As is Dale Sandler. Do you	1 Exhibit 22 for identification.)
2 see that?	2
3 A. Yes.	3 BY MR. TISI:
4 Q. Okay. Nicolas Wentzensen?	4 Q. Okay. And Dale Sandler is
5 A. Yes.	5 part of that study as well, correct?
6 Q. And Holly Harris. Do you see	6 A. Yeah, I see his name.
7 her name?	7 Q. It's actually a she.
8 A. Yes.	8 A. Sorry, she. My bad.
9 Q. Clarice Weinberg?	9 Q. That's okay. And, of course,
10 A. Yes.	10 there's O'Brien (2024), Exhibit No. 8 where
11 Q. She's a biostatistician,	11 these same authors appear again, true?
12 correct?	12 A. That's true.
13 A. I don't know.	13 Q. Okay. And in addition to
14 Q. Okay. Now, there's also a	14 this, okay, O'Brien has written other
15 study on that touches on talc recall	15 things on the talc ovarian cancer
16 bias, which is O'Brien (2023), correct?	
17 A. Yes.	16 association, for example, response to17 letter to the editors that we just talked
18 Q. And that's Exhibit No. 16.	18 about, Exhibit No. 25 in your book,
19 A. Yes.	19 correct?
20	20 A. The responses you said are
	21 Exhibit 25 or is that a different
21 (O'Brien (2023) marked 22 Kornak Exhibit 16 for	
	 Q. No, Exhibit No. 25. A. I received Exhibit No. 25 as
23 identification.) 24	
24	24 a paper.
D 115	D 117
Page 115	Page 117 1 O. I'm sorry. I'm sorry.
1 BY MR. TISI:	1 Q. I'm sorry. I'm sorry,
1 BY MR. TISI: 2 Q. Okay. It's entitled	1 Q. I'm sorry. I'm sorry, 2 Exhibit No. 26. And she wrote a response
 1 BY MR. TISI: 2 Q. Okay. It's entitled 3 "Douching and genital talc use: Patterns 	 Q. I'm sorry. I'm sorry, Exhibit No. 26. And she wrote a response to letters that were written to her about
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1 BY MR. TISI: 2 Q. Okay. It's entitled 3 "Douching and genital talc use: Patterns 4 of use and reliability of self-reported 5 exposure," correct? 6 A. Correct. 7 Q. And the authors on that are, 8 again, Dr. O'Brien, Dr. Wentzensen, and 9 Dr. Sandler, correct? 10 A. Yes. 11 Q. Okay. These are the same 12 authors who appear over and over in these 13 studies publishing the peer-reviewed 14 literature coming out of the Sister Study, 15 correct? 16 A. Yes. 17 Q. Okay. The next one is a 18 study of personal care product mixtures in 19 different cancers by Chang, Exhibit 22, in	1 Q. I'm sorry. I'm sorry, 2 Exhibit No. 26. And she wrote a response 3 to letters that were written to her about 4 O'Brien (2020), correct it would be on the 5 second page of that document. Third page, 6 I'm sorry. 7 A. Yes. 8 9 (O'Brien Response to Letter 10 to the Editor marked Kornak 11 Exhibit 26 for identification.) 12 13 BY MR. TISI: 14 Q. Okay. So it's fair to say 15 that these authors from the NIH have 16 published a lot of literature of talc and 17 ovarian cancer coming out of the Sister 18 Study, true? 19 MS. LEHMAN: Object to form.
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1 BY MR. TISI: 2 Q. Okay. It's entitled 3 "Douching and genital talc use: Patterns 4 of use and reliability of self-reported 5 exposure," correct? 6 A. Correct. 7 Q. And the authors on that are, 8 again, Dr. O'Brien, Dr. Wentzensen, and 9 Dr. Sandler, correct? 10 A. Yes. 11 Q. Okay. These are the same 12 authors who appear over and over in these 13 studies publishing the peer-reviewed 14 literature coming out of the Sister Study, 15 correct? 16 A. Yes. 17 Q. Okay. The next one is a 18 study of personal care product mixtures in 19 different cancers by Chang, Exhibit 22, in 20 your book. If you could bring up 21 Exhibit 22, Jeff.	1 Q. I'm sorry. I'm sorry, 2 Exhibit No. 26. And she wrote a response 3 to letters that were written to her about 4 O'Brien (2020), correct it would be on the 5 second page of that document. Third page, 6 I'm sorry. 7 A. Yes. 8 9 (O'Brien Response to Letter 10 to the Editor marked Kornak 11 Exhibit 26 for identification.) 12 13 BY MR. TISI: 14 Q. Okay. So it's fair to say 15 that these authors from the NIH have 16 published a lot of literature of talc and 17 ovarian cancer coming out of the Sister 18 Study, true? 19 MS. LEHMAN: Object to form. 20 THE WITNESS: They have 21 published multiple papers that use

1	Page 118		Page 120
1	them before May 20, 2024, true?	1	and I assume they are qualified
2	A. I believe that is true.	2	researchers in what they're working
3	Q. Okay.	3	on.
4	A. But, anyway sorry.	1	BY MR. TISI:
5	Q. Would you expect these	5	Q. Well, do you have any
6	people, these NIH scientists, who have been	1	evidence, as we sit here today, Dr. Kornak,
	publishing from the Sister Study on talc	1	that any of these NIH scientists who
	and ovarian cancer for going on 20 years to		drafted or were responsible for drafting
	know and understand their cohort and their	1	O'Brien (2024) or any of the prior studies
1	data?	1	have been have received a penny from any
11	MS. LEHMAN: Object to form.		side in this talc litigation?
12	THE WITNESS: Well, I don't	12	A. I don't know if whether
13	know that they have been publishing	1	they have or they haven't. I don't know.
14	for 20 years. I know that 2016,	14	Q. Well, that's actually a
15	since then for sure, they have been		different question. Do you have any
16	publishing on this.	1	evidence, as you sit here today, that they
17	BY MR. TISI:	1	have received
18	Q. Okay.	18	A. No.
19	A. So but what was the question	19	Q even a penny in money from
	again?		lawyers involved in talc litigation?
21	Q. Well, let me ask you this.	21	MS. LEHMAN: Object to form.
	Would you expect them to know and	$\begin{vmatrix} 21\\22\end{vmatrix}$	Asked and answered.
	understand the data, they have been working	23	THE WITNESS: I don't have any
	with this data for a long time, true?	24	such evidence.
24		24	
1	A. They have been working with	1	Page 121 BY MR. TISI:
$\frac{1}{2}$	the data at baseline for a while.	2	Q. Okay. Do you have any
3	Q. And they have been crafting		information that any of these NIH
4	the follow-up questionnaires, true?	1	scientists who published O'Brien (2024)
5	A. I don't know if they were	1	have been retained as a litigation
	involved in crafting the follow-up		consultant in any fashion?
	questionnaire. I know they're involved in	7	A. No.
	the Sister Study, but I don't know to what	8	Q. Okay. Now, you have been a
9	extent.	9	consultant and expert for this litigation,
	Chichic.	_	
1	O But you don't know the roles	10	do you have any evidence that any of these
10	Q. But you don't know the roles, the respective roles that they had with the	10 11	do you have any evidence that any of these NIH scientists have participated in any
10 11	the respective roles that they had with the	11	NIH scientists have participated in any
10 11 12	the respective roles that they had with the Sister Study, true?	11 12	NIH scientists have participated in any legal matter, talc or otherwise, at any
10 11 12 13	the respective roles that they had with the Sister Study, true? A. I don't know their roles	11 12 13	NIH scientists have participated in any legal matter, talc or otherwise, at any time in their professional careers?
10 11 12 13 14	the respective roles that they had with the Sister Study, true? A. I don't know their roles completely.	11 12 13 14	NIH scientists have participated in any legal matter, talc or otherwise, at any time in their professional careers? MS. LEHMAN: Object to form to
10 11 12 13 14 15	the respective roles that they had with the Sister Study, true? A. I don't know their roles completely. Q. Okay. Have you looked at	11 12 13 14 15	NIH scientists have participated in any legal matter, talc or otherwise, at any time in their professional careers? MS. LEHMAN: Object to form to counsel testifying.
10 11 12 13 14 15 16	the respective roles that they had with the Sister Study, true? A. I don't know their roles completely. Q. Okay. Have you looked at their qualifications on from the NIH	11 12 13 14 15 16	NIH scientists have participated in any legal matter, talc or otherwise, at any time in their professional careers? MS. LEHMAN: Object to form to counsel testifying. THE WITNESS: I don't have any
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10 11 12 13 14 15 16 17 18 19	the respective roles that they had with the Sister Study, true? A. I don't know their roles completely. Q. Okay. Have you looked at their qualifications on from the NIH website in order to understand their roles not only in looking at the Sister Study cohort, but in looking at cohort data in	11 12 13 14 15 16 17 18 19	NIH scientists have participated in any legal matter, talc or otherwise, at any time in their professional careers? MS. LEHMAN: Object to form to counsel testifying. THE WITNESS: I don't have any evidence on what whether they've been involved in legal proceedings in their careers.
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10 11 12 13 14 15 16 17 18 19 20 21	the respective roles that they had with the Sister Study, true? A. I don't know their roles completely. Q. Okay. Have you looked at their qualifications on from the NIH website in order to understand their roles not only in looking at the Sister Study cohort, but in looking at cohort data in multiple cohorts? MS. LEHMAN: Object to form.	11 12 13 14 15 16 17 18 19 20 21	NIH scientists have participated in any legal matter, talc or otherwise, at any time in their professional careers? MS. LEHMAN: Object to form to counsel testifying. THE WITNESS: I don't have any evidence on what whether they've been involved in legal proceedings in their careers. BY MR. TISI: Q. Well, you don't have any

Q. Do you have any reason to doubt their independence when drafting studies that they send in for peer review on the Sister Study? A. I don't have any such	2 3 4	Page 124 clearly here in the paper that there are problems with what they're relying on this forward retrospective analysis when they have clean prospective data that they
doubt their independence when drafting studies that they send in for peer review on the Sister Study? A. I don't have any such	2 3 4	problems with what they're relying on this forward retrospective analysis when
studies that they send in for peer review on the Sister Study? A. I don't have any such	3 4	this forward retrospective analysis when
on the Sister Study? A. I don't have any such	4	
A. I don't have any such		they have clean prospective data that they
· ·	5	could be focused on.
evidence and you know I don't know these	6	Q. And let's talk about
evidence and, you know, I don't know these people, so I'm not	7	A. And they mentioned, they said
Q. If somebody were to walk into		they relegated that down into the appendix.
•		Q. Okay. We're going to talk
• • •	_	about that. We're going to talk about what
	1	your answer. Do you have any
· ·	1	THE STENOGRAPHER: You froze.
· · · · · · · · · · · · · · · · · · ·		BY MR. TISI:
_		Q. I move to strike your answer
, and the second		as nonresponsive. Do you have any evidence
,		that you can point to that these that
•		these NIH scientists who have never been
		paid in litigation, to your knowledge,
		engaged in an analysis with an intent to
		find an association where none exists?
	1	MS. LEHMAN: Object to form.
		Asked and answered.
		THE WITNESS: Just that,
	24	·
	1	Page 125 again, I don't know their motives,
* =		but they produced a paper which
		appears to do as much juggling as
		possible to try to find a result
BY MR. TISI:	5	where none really exists.
O. I'm asking whether you	6	BY MR. TISI:
•		Q. Let's go to Exhibit No. 10,
•		if we could, in your binder. This is the
answer		NIH biography of Dale Sandler. She's a
		senior investigator in the epidemiology
	l	branch, chronic disease, epidemiology group
· · · · · · · · · · · · · · · · · · ·	12	at the National Institute of Environmental
	13	Health Sciences of the NIH.
	14	Do you see that?
move to strike.	15	A. Yes.
	16	
-	17	(Dale Sander, PhD, Bio
	18	marked Kornak Exhibit 10 for
previous papers. They were using flawed	19	identification.)
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20	,
approaches and so, you know, I don't know	20	
approaches and so, you know, I don't know what their exact reason is for doing this,	1	BY MR. TISI:
what their exact reason is for doing this,	21	BY MR. TISI: Q. Okay. That's a pretty
	21 22	BY MR. TISI: Q. Okay. That's a pretty that's a pretty important position, do you
	Q. I'm asking whether you have any A. I would like to finish my answer Q. Well, I want to A. I really want to finish what I was saying before I lose my train of thought Q. All right. Finish and I'll move to strike.	their mind to publish a paper where the outcome was that talc was associated with ovarian cancer as before they even started the study, that would be there would be no evidence for that, right? MS. LEHMAN: Object to form. THE WITNESS: Well, I would say, no, that I mean, this there is kind of evidence to that in a way. I mean, you're kind of getting putting me in a hypothetical position about what's in the mind 22 my MR. TISI: Q. Well, it's not 24 Page 123 hypothetical

	D 126		D 120
1	Page 126 A. You know, I'm not familiar	1	good for her that she got an award.
	with NIH internal hierarchy as to what	2	Again, I'm not in any way doubting
3	different positions mean, but I have no	3	her credentials, but I don't know
1	reason to doubt her credentials.	4	the specifics of how these awards
5	Q. Okay. If you go to page 3,	5	are made. But, you know, great.
	it says "Dale Sandler, heads the Chronic	6	BY MR. TISI:
1	Disease Epidemiology group and has been	7	Q. If you had gotten her if
	Chief of the Epidemiology Branch of the		you had gotten an application for her
	Division of Intramural Research at NIEHS		medical for your school at UCSF, would
1	since 2003."	l .	you have given it a look?
11	Do you see that?	11	A. If we were hiring and, sure,
12	A. Yes.	l	her CV would be considered along with all
13	Q. Is that, if you were to get		CVs that were or all applications that
1	that as an application to your school, you		were made for a position. But, yes, she
	would consider that to be a pretty		would receive consideration and she has,
1	impressive credential, true?	l	presumably, she has the qualifications for
17	MS. LEHMAN: Object to form.		certain positions.
18	THE WITNESS: I mean, you	18	Q. Let's look at Katie O'Brien,
19	know, it seems to be a potentially	19	Exhibit No. 8. By the way, actually, never
20	important position. I don't know		mind. Do you see
21	the internal workings of, like, the	21	A. You said Exhibit No. 8.
22	NIH hierarchy, but she has	22	Q. Exhibit No. 9, excuse me.
23	BY MR. TISI:	23	A. Go ahead.
24	Q. It further states that she	24	
	Page 127		Page 129
1	I'm sorry, go ahead.	1	(Katie O'Brien, PhD, Bio
2	A. No, I'm just going to give	2	marked Kornak Exhibit 9 for
3	you an example within UCSF, you can have		
1 4		3	identification.)
	people that head groups and it's really	4	´
5	them and a postdoc, so I don't know what	4 5	BY MR. TISI:
5 6	them and a postdoc, so I don't know what this means, but, again, I'm not doubting	4 5 6	BY MR. TISI: Q. She's a member of the Chronic
5 6 7	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials.	4 5 6 7	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group.
5 6 7 8	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a	4 5 6 7 8	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that?
5 6 7 8 9	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of	4 5 6 7 8 9	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes.
5 6 7 8 9 10	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology.	4 5 6 7 8 9 10	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2,
5 6 7 8 9 10 11	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that?	4 5 6 7 8 9 10 11	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the
5 6 7 8 9 10 11 12	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that? A. Yes.	4 5 6 7 8 9 10 11 12	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the Epidemiology Branch, where she helps lead
5 6 7 8 9 10 11 12 13	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that? A. Yes. Q. Are you a member of the	4 5 6 7 8 9 10 11 12 13	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the Epidemiology Branch, where she helps lead the Sister Study, a prospective cohort
5 6 7 8 9 10 11 12 13 14	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that? A. Yes. Q. Are you a member of the American College of Epidemiology?	4 5 6 7 8 9 10 11 12 13 14	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the Epidemiology Branch, where she helps lead the Sister Study, a prospective cohort study designed to identify environmental
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that? A. Yes. Q. Are you a member of the American College of Epidemiology? A. No, I'm not a member. Q. Okay. It says she received the NIH directors award in 2009 for developing the Sister Study. Do you see that? A. Yes. Q. Okay. Is that something that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the Epidemiology Branch, where she helps lead the Sister Study, a prospective cohort study designed to identify environmental and genetic risk factors for breast cancer. Within the study, O'Brien's main interests include how environmental and hormone-related exposures are related to breast, ovarian and uterine cancers." Do you see that? A. Yes. Q. Okay. Do you have any reason

Page 130 Page 132 1 what her PhD is in, but no, I'm not saying 1 Α. Yes. 2 that she's not credentialed. 2 Q. And she's one of the 3 Q. Do you have any reason to 3 coauthors on O'Brien (2024), true? 4 believe based upon her biography that she's 4 I don't remember the list of 5 unqualified to methodologically construct 5 coauthor names, but I think --6 or author a study like O'Brien (2024)? Exhibit No. 8, she's right 6 Q. I don't see in here that she 7 there in the front. I'm not doubting you, I just 8 has basically the biostatistical expertise 8 9 to deal with the kind of methodological 9 wanted to double-check. Yes, she's there. 10 issues that are involved in all of the 10 O. Okay. 11 imputation and correction processes and Yeah. 11 A. 12 made up steps in O'Brien (2024). 12 So there is a biostatistician O. Okay. Let's talk about 13 13 on this paper who is -- you have no reason 14 to doubt their -- who is actually the head 14 somebody who may actually do that. Can we 15 go to Exhibit No. 12? This is the 15 of the biostatistics branch for almost 20 16 biography, the NIH biography of Clarice 16 years at the National Institute of 17 Weinberg, PhD, Senior Investigator 17 Environmental Health Sciences, correct? 18 Biostatistics and Computational Biology 18 A. Yeah. 19 Branch at NIEHS. 19 Do you have any reason to 20 Do you see that? 20 believe that she doesn't understand 21 21 imputation methods or how to correct for Yes. A. 22 22 recall bias? 23 (Clarice Weinberg, PhD, bio 23 A. I mean, all I can say is she 24 marked Kornak Exhibit 12 for 24 was a coauthor on there and that she is Page 131 Page 133 1 identification.) 1 greatly credentialed in biostatistics and 2 _ _ _ _ 2 I'm amazed that if she looked at this 3 BY MR. TISI: 3 closely enough that she let it go through Q. And if you go to the second 4 with her name on it with all of those flaws 5 page, it says in her biography, okay, it 5 that are in the paper. I certainly would 6 not have done it and I would have asked to 6 says she was elected fellow of the American 7 Statistical Association in 1995, awarded 7 be taken off. 8 both the Janet Norwood Award and Mantel 8 Q. Let's go to Exhibit No. 11. 9 Award in 2005, and was elected to the 9 This is Nicolas Wentzensen, a senior 10 American Epidemiologic Study in 2007. 10 investigator, the Clinical Genetics Branch Do you see that? 11 and National Cancer Institute and he's an 11 12 A. Yes. 12 MD, PhD, correct? 13 Q. And do you also see that she 13 Where does it say that? I 14 is -- it says above that "After serving on 14 don't doubt -- oh, yeah, sorry, I see MD, 15 the faculty of the Department of 15 PhD, yes. 16 Biostatistics in Seattle for two years, she 16 17 came NIEHS in 1983, where she headed up the 17 (Nicolas Wentzensen, MD, 18 Biostatistics Branch since 1997." 18 PhD, Bio marked Kornak Exhibit 11 19 Do you see that? 19 for identification.) 20 A. Yes. 20 21 BY MR. TISI: 21 O. Okay. So she heads the 22 biostatistics branch at the National Q. And if you go to page 3, with 22 23 Institute of Environmental Health Sciences. 23 respect to ovarian cancer specifically, it 24 says "Together with extramural researchers, 24 correct?

		_	
	Page 134		Page 136
	I established the Ovarian Cancer Cohort	1	clinical areas and they suddenly do not
	Consortium (OC3) to conduct well-powered		have the charts to deal with this kind of
	studies of risk factors and biomarkers for		problem. So, like I said, I don't know Dr.
	histologic subtypes," correct?		Wentzensen. He does have an MD. He does
5	A. That is what is stated there,	1	have a PhD. He has credentials. But I
	yes.	1	don't see evidence that he has the
7	Q. Okay. So do you have any		biostatistical skills to know how to review
	reason to believe that he doesn't		the paper.
	understand how to analyze cohort data with	9	Q. Okay. All right. So I'm
1	respect to ovarian cancer and risk factors?	1	going to show you Exhibit No. 13, which is
11	A. Other than the fact that he	11	*
	put his name on this paper when he's		Wentzensen is the last author.
	clearly using flawed analysis, I can't	13	Do you see that?
	point to anything else. I don't know the	14	A. Yes.
1	professor and I don't know his history of	15	
1	publications	16	(OC3 Cohort Profile marked
17	Q. Let's look at it	17	Kornak Exhibit 13 for
18	A. I don't know his	18	identification.)
	biostatistical expertise.	19	
20	Q. Let's look at his biography		BY MR. TISI:
1	on the next page, page 4, he received an MD	21	Q. You see Dale Sandler up
	in 2000 and a PhD in 2007.		there? Three lines up.
23	Do you see that?	23	A. It will take me a little
24	A. Yes.	24	while to go through here.
	Page 135		Page 137
1	Q. He became, if you go down, it	1	Q. Three lines up, right there,
1			
2	Q. He became, if you go down, it		Q. Three lines up, right there,
2 3	Q. He became, if you go down, it says he became a tenure-track investigator	2	Q. Three lines up, right there, right?
2 3 4	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure	2 3 4	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler.
2 3 4	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that?	2 3 4 5 6	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor,
2 3 4 5 6 7	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013.	2 3 4 5 6	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there?
2 3 4 5 6	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that?	2 3 4 5 6 7	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor,
2 3 4 5 6 7 8	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that? A. Yes.	2 3 4 5 6 7	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor, rather than where is Katie O'Brien? Oh,
2 3 4 5 6 7 8 9	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that? A. Yes. Q. And it says his "research is focused on clinical epidemiology of gynecological cancers. His research has	2 3 4 5 6 7 8 9	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor, rather than where is Katie O'Brien? Oh, yeah. Yup. Q. And this is not just a Sister Study, this is an Ovarian Cancer Cohort
2 3 4 5 6 7 8 9 10 11	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that? A. Yes. Q. And it says his "research is focused on clinical epidemiology of gynecological cancers. His research has been highly recognized internationally."	2 3 4 5 6 7 8 9 10 11	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor, rather than where is Katie O'Brien? Oh, yeah. Yup. Q. And this is not just a Sister Study, this is an Ovarian Cancer Cohort Consortium published in the International
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that? A. Yes. Q. And it says his "research is focused on clinical epidemiology of gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor, rather than where is Katie O'Brien? Oh, yeah. Yup. Q. And this is not just a Sister Study, this is an Ovarian Cancer Cohort Consortium published in the International Journal of Epidemiology. Do you see that? A. Yes. Q. And if you go down, it says "The Ovarian Cancer Cohort Consortium was established to facilitate prospective
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that? A. Yes. Q. And it says his "research is focused on clinical epidemiology of gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer? A. Again, I don't know this person individually what he's clearly credentialed in what he knows, but I work with people all the time who are clearly credentialed in what they know and they come to me for biostatistical advice.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor, rather than where is Katie O'Brien? Oh, yeah. Yup. Q. And this is not just a Sister Study, this is an Ovarian Cancer Cohort Consortium published in the International Journal of Epidemiology. Do you see that? A. Yes. Q. And if you go down, it says "The Ovarian Cancer Cohort Consortium was established to facilitate prospective studies of ovarian cancer risk factors, biomarkers, risk prediction and outcomes while accounting for ovarian cancer subtypes. "The consortium currently includes 1.3 million women, among which
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. He became, if you go down, it says he became a tenure-track investigator in 2009 and was awarded scientific tenure by the NIH and appointed senior investigator in 2013. Do you see that? A. Yes. Q. And it says his "research is focused on clinical epidemiology of gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer? A. Again, I don't know this person individually what he's clearly credentialed in what he knows, but I work with people all the time who are clearly credentialed in what they know and they	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Three lines up, right there, right? A. Yes, I see Dale Sandler. Q. Okay. Katie O'Brien is there? A. I'll just watch your cursor, rather than where is Katie O'Brien? Oh, yeah. Yup. Q. And this is not just a Sister Study, this is an Ovarian Cancer Cohort Consortium published in the International Journal of Epidemiology. Do you see that? A. Yes. Q. And if you go down, it says "The Ovarian Cancer Cohort Consortium was established to facilitate prospective studies of ovarian cancer risk factors, biomarkers, risk prediction and outcomes while accounting for ovarian cancer subtypes. "The consortium currently

	Page 138		Page 140
1 cancer hav	ve been identified."	1	have been involved in cohort
	Do you see that?	2	studies of breast cancer, which I
	Yes.	3	believe count as gynecological
	Okay. And Dr. Wentzensen and	4	cancers.
_	en, and Dr. Sandler are all part	5	BY MR. TISI:
	nsortium, correct?	6	Q. You weren't even involved
	They're all coauthors on this	7	you weren't even aware that there was an
	on't know	8	Ovarian Cancer Cohort Consortium until I
	Do you think that they would	9	just showed you this paper five minutes
	this consortium of 1.3 million		ago, true?
1 -	they didn't have any idea how to	11	MS. LEHMAN: Object to form.
	phort data?	12	THE WITNESS: I don't know
1	MS. LEHMAN: Object to form.	13	whether I saw this in any of the
	ΓHE WITNESS: Well, first	14	documents that I reviewed. There
	y, I'm going to, like, the	15	was a lot of materials that I've
	part of your question, I	16	reviewed. But I certainly wouldn't
	't know that they are part of	17	say I'm highly familiar with the
	consortium. I see they're	18	Ovarian Cancer Cohort Consortium.
	uthors on this paper. They may	19	BY MR. TISI:
	l be and I have no reason to	20	Q. Will you go to exhibit
	bt that they are, but I don't	21	A. There was your other part of
	w that for sure. There are many	22	the question was about whether they're able
	of consortium papers where		to analyze cohort studies, I believe, and
	er people are added as coauthors		in that respect, the fact that what the
	Page 139		Page 141
1 that	are not part of the	1	authors did in O'Brien (2024) does not bode
2 con	sortium, so	2	well for saying that they do a good job of
3 BY MR. 7	ΓISI:	3	analyzing cohort studies, because the
4 Q.	Well, you saw that Dr.	4	and I'm really quite amazed, to be honest
5 Wentzens	en, when I pulled up his biography,	5	here, you know, this is talking about
6 he actually	y organized this, correct?	6	facilitating prospective studies and yet
7 A.	I mean, yeah, I accept that	7	O'Brien is all about retrospective
8 Dr. Wentz	zensen is part of the consortium.	8	analysis
9 I just don'	t know about the others.	9	Q. All right. Well, we're going
10 Q.	Okay.	10	to talk about that in a minute, but let me
11 A.	And I have no reason to doubt	11	just ask you this question now. In cohort
12 it, please	lon't get me wrong.	12	studies, it is not unusual at all for
13 Q.	Well, you're not part of	13	follow-up questionnaires to be issued when
14 anything l	ike this, are you? You're not	14	a research question comes up, true?
15 part of y	you have never studied or been	15	A. And I'm trying to think of
16 involved v	with any cohort data with respect	16	specific analysis situations. I mean,
17 to any gyr	necologic cancer, have you?	17	usually in cohort studies, if you want to
	MS. LEHMAN: Object to form.		look at things longitudinally, you decide
	ΓΗΕ WITNESS: Strictly		that before you start the cohort study and
1	aking, I think I mean, I		you have a prespecified plan of what
	't think that's the the point		when you will be collecting data, what will
22 is I's	m a biostatistician and my	22	be in that data. If you're going to modify
23 mat	h is applicable across a wide ge of areas, but I certainly		that in any way, that gets goes into the protocol in some way, but so I think

Page 142		Page 144
	1	Initiative cohorts, correct?
•		A. I've seen that those were in
		O'Brien (2020), I believe.
•		Q. And you did not know that the
• • •		question about talc use wasn't asked at the
· · · · · · · · · · · · · · · · · · ·		•
•		A. I don't recall that, no.
-		Q. Okay.
		A. Yeah.
•		Q. If I am correct, and I know
-		that I am, that those questions weren't
•		_
,		•
		many years after the study was initiated,
· ·		would that call into question the
•		reliability of those studies, in your
1		opinion?
•		MS. LEHMAN: Object to form.
		THE WITNESS: It would give me
		concern about inference from that
•		study incorporating additional
· · · · · · · · · · · · · · · · · · ·		sources of bias, such as recall
		bias. I would look at specifically
		the design and the timeline to
don't recall it specifically. But if	24	follow that, that wasn't the focus
Page 143		Page 145
•		of my I'm not opining on that
		study per se.
· · · · · · · · · · · · · · · · · · ·	-	BY MR. TISI:
¥ 1		Q. The lawyers didn't ask you to
		do that, did they?
		MS. LEHMAN: Object to form.
•		THE WITNESS: No, I mean, I
-		was asked to give an independent
case-control studies; is that your opinion?	9	review of O'Brien (2024) and to
3		that extent, I reviewed O'Brien
		(2024) and materials associated
BY MR. TISI:	12	with that. I think we have been
Q. Let me rephrase the	13	going I'm going to ask for a
question	14	break at this point. We have been
A was a convoluted question	15	going for an hour and a quarter, I
and I couldn't follow it.	16	think, so I could do with five
Q. Let me rephrase that	17	minutes.
g question. If those studies,	18	MR. TISI: Fine. That's okay.
hypothetically, use	19	We'll take a break now. I'm at a
A. Are we talking about any	20	breaking point.
.1 .61.	21	
other specific studies or something	41	
other specific studies or something Q. Yeah, let's talk specific.	22	(A recess was taken at this time.)
		(A recess was taken at this time.)
	that's the case, then that weakens my perspective of that study. Q. Okay. So if it is true, okay, that cohort studies upon which J&J has relied on in this litigation asked questions about talc use in a subsequent questionnaire, those turn those studies into case-control studies, retrospective case-control studies; is that your opinion? MS. LEHMAN: Objection. THE WITNESS: I mean that BY MR. TISI: Q. Let me rephrase the question A was a convoluted question and I couldn't follow it. Q. Let me rephrase that question. If those studies, hypothetically, use	it's kind of unusual to just kind of like Q. Really? A decide you're going to do another survey or something, yeah. Q. Okay. So let me ask you this question. Are you aware that there are other cohort studies which have looked at the question of talc and ovarian cancer including the Women's Health Initiative, the Nurses' Study? A. Yes, I mean they're in O'Brien (2020) as part of their combined analysis. Q. Do you know that the talc use wasn't part of the original enrollment questionnaire, but was only asked in a subsequent questionnaire during the course of those cohorts. Do you know that? A. I wouldn't say I may have seen it when I was going through the O'Brien (2020) paper, if it's there. I don't recall it specifically. But if Page 143 that's the case, then that weakens my perspective of that study. Q. Okay. So if it is true, okay, that cohort studies upon which J&J has relied on in this litigation asked questions about talc use in a subsequent questionnaire, those turn those studies case-control studies; is that your opinion? MS. LEHMAN: Objection. THE WITNESS: I mean that BY MR. TISI: Q. Let me rephrase the question A was a convoluted question and I couldn't follow it. Q. Let me rephrase that question. If those studies, hypothetically, use

	Dog 146		Page 148
1	Page 146 BY MR. TISI:	1	Bayesian analysis in general, but that is
2	Q. Back on the record.	$\frac{1}{2}$	missing data work
3	Dr. Kornak, we took about a half hour break	3	Q. Okay. Well
	and in the interim, I looked up two	4	A. The question you asked, I did
	articles that you mentioned, I believe,		not do any specific papers about, they
	discussing methods of imputation and they	6	appear elsewhere. If you want to check the
	were number 29 and 32 of your CV. One		record on that, that's fine.
	•	8	·
	titled "Bayesian k-space-time		Q. Doctor, I'm going to check
	reconstruction of MR spectroscopic imaging for enhanced resolution."	1	the record as I do all the time. My
			question, I'm going to ask you again, is in
11	And the second one is	11	any of your published work, articles,
	"K-Bayes reconstruction for perfusion MRI		whatever, have you discussed the analytical
	II: Modeling and technical development,"		tool of multiple imputation or single
	both in 2010. Those were the studies you	1	imputation as a method for dealing with
	referred to?		missingness, not whether you used it, but
16	A. Yes, I believe so.	1	whether you discuss when it's appropriate
17	Q. Okay. Would it surprise you		and under what circumstances?
	that the word "imputation" isn't even used	18	A. Well, the answer to that is
	in these articles?		going to be yes, because when you use it
20	A. No, it wouldn't surprise me.	20	unfortunately, this is not what O'Brien
21	Q. All right. Let's go		(2024) do, they don't justify why they're
22	A. I would say that the uses		using it in their particular situation and
	of		whether it's appropriate. But whenever
24	Q. No question.	24	we I have been involved in using it in
	Page 147		Page 149
1			
1	A. The use of imputation I	1	multiple imputation approaches or any way
2	_		multiple imputation approaches or any way of dealing with missing data, I want to
		2	
2 3	would need to qualify my answer	2 3	of dealing with missing data, I want to
2 3	would need to qualify my answer Q. No, but I asked you the question before, my question was not	2 3	of dealing with missing data, I want to discuss those, the limitations of using
2 3 4 5	would need to qualify my answer Q. No, but I asked you the question before, my question was not	2 3 4	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to
2 3 4 5 6	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your	2 3 4 5	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien
2 3 4 5 6 7	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk	2 3 4 5 6	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that.
2 3 4 5 6 7	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of	2 3 4 5 6 7 8	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike.
2 3 4 5 6 7 8	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness?	2 3 4 5 6 7 8 9	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we
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2 3 4 5 6 7 8 9 10	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The	2 3 4 5 6 7 8 9 10 11 12	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of
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2 3 4 5 6 7 8 9 10 11 12 13	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record,	2 3 4 5 6 7 8 9 10 11 12 13	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony?
2 3 4 5 6 7 8 9 10 11 12 13 14	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record, because	2 3 4 5 6 7 8 9 10 11 12 13 14 15	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony? A. Yeah, I remember that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record, because Q. That's okay. A what the record would say	2 3 4 5 6 7 8 9 10 11 12 13 14 15	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony? A. Yeah, I remember that. Q. Okay. I would like to show
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record, because Q. That's okay. A what the record would say was you asked me if there was any methods	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony? A. Yeah, I remember that. Q. Okay. I would like to show you Exhibit No. 14, which is a do you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record, because Q. That's okay. A what the record would say was you asked me if there was any methods papers that I did that involved missing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony? A. Yeah, I remember that. Q. Okay. I would like to show you Exhibit No. 14, which is a do you know what International Agency on the Research for Cancer is?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record, because Q. That's okay. A what the record would say was you asked me if there was any methods papers that I did that involved missing data and methods development. That was the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony? A. Yeah, I remember that. Q. Okay. I would like to show you Exhibit No. 14, which is a do you know what International Agency on the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	would need to qualify my answer Q. No, but I asked you the question before, my question was not qualified. My question is, in any of your published literature, did you ever talk about the appropriateness of the methods of imputation to deal with missingness? A. I Q. And your answer was your answer was in those two studies. The record will be what the record will be A. No, we can check the record, because Q. That's okay. A what the record would say was you asked me if there was any methods papers that I did that involved missing data and methods development. That was the answer that these two papers were for and these two papers do. If you look, the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of dealing with missing data, I want to discuss those, the limitations of using those approaches and wherever possible to do sensitivity analysis. Again, O'Brien (2024) did not do that. Q. Okay. Move to strike. I would like to show you, we were talking before the break about the qualifications of the various authors to do and look at the data using the kinds of methods that they use in O'Brien (2024). Do you remember that testimony? A. Yeah, I remember that. Q. Okay. I would like to show you Exhibit No. 14, which is a do you know what International Agency on the Research for Cancer is? A. Yes, I know of them.
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Exhibit 14 for identification.)

24

24 that I used the words there, it's part of

	Page 150		Page 152
1		1	and with asbestos was a definite ovarian
	BY MR. TISI:	2	carcinogen. You understand that to be
3	Q. You know IARC, have you been	3	-
1	involved in IARC? Have you ever been	4	MS. LEHMAN: And I'm going to
	involved with IARC in any way?	5	object. This is beyond the scope
6	A. No. I mean, not directly. I	6	of his report.
7	may have been indirectly through my other	7	MR. TISI: Well, he said he
8	work in cancer research, but not directly.	8	looked at it, so I'm asking him
9	Q. But you have to be actually	9	that question. You understand that
	asked to be a member of an IARC panel, you	10	that that's what they concluded,
	know that, right?	11	right?
12	A. I don't know what their	12	THE WITNESS: I think you
	methods are for bringing members onto the	13	froze in the middle of the
	panel, I don't know.	14	question, so I didn't get it.
15	Q. You would agree with me that	l	BY MR. TISI:
	IARC is considered to be a reputable and	16	Q. You understand that that's
	important international organization with	17	
1	respect to the study of cancer and risk	18	asbestos is a probable ovarian carcinogen
1	factors?	19	and with asbestos was a definite ovarian
20	A. I think it's an established		carcinogen. You understand that that was
21	agency in that field in terms of cancer	21	the conclusion of the IARC panel that was
	research, yes.	22	•
23	Q. Okay. By the way, do you	23	MS. LEHMAN: And I would,
	know in this past week first of all, do	24	again, object as this is beyond the
	Page 151		Page 153
1	you know that both Dr. O'Brien and Dr.	1	scope of his report.
1	Wentzensen were asked to be part of this	2	THE WITNESS: Yeah, I mean, I
3	particular panel because of their	3	would agree that I'm certainly
4	expertise, correct?	4	not but my understanding is that
5	MS. LEHMAN: Object to form.	5	from this paper that it moved from
6	THE WITNESS: I know that		
7		6	2B to 2A, so from possible to
/		l	2B to 2A, so from possible to probable. Although, I looked at
8	from I think you were going to	6	probable. Although, I looked at
		6 7	•
8	from I think you were going to go start talking about the press	6 7 8	probable. Although, I looked at that document and I didn't see any
8 9	from I think you were going to go start talking about the press release, the recent that came	6 7 8 9	probable. Although, I looked at that document and I didn't see any new data or information or new
8 9 10	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but	6 7 8 9 10	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into
8 9 10 11	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they	6 7 8 9 10 11	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision.
8 9 10 11 12	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they were on the panel. I don't know if	6 7 8 9 10 11 12 13	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision. So I don't see any real reason
8 9 10 11 12 13	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they were on the panel. I don't know if they were asked to go on or whether	6 7 8 9 10 11 12 13	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision. So I don't see any real reason it doesn't update my opinions
8 9 10 11 12 13 14	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they were on the panel. I don't know if they were asked to go on or whether they asked if they could go on. I	6 7 8 9 10 11 12 13 14	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision. So I don't see any real reason it doesn't update my opinions BY MR. TISI:
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8 9 10 11 12 13 14 15 16	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they were on the panel. I don't know if they were asked to go on or whether they asked if they could go on. I don't know the process for their constructing panels.	6 7 8 9 10 11 12 13 14 15 16 17	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision. So I don't see any real reason it doesn't update my opinions BY MR. TISI: Q. Well A. I don't see any reason any
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8 9 10 11 12 13 14 15 16 17 18 19 20	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they were on the panel. I don't know if they were asked to go on or whether they asked if they could go on. I don't know the process for their constructing panels. BY MR. TISI: Q. Well, since you talked about the press release that came out in the past	6 7 8 9 10 11 12 13 14 15 16 17 18	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision. So I don't see any real reason it doesn't update my opinions BY MR. TISI: Q. Well A. I don't see any reason any justification for changing from the previous stance. Q. So let's look at that for a
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	from I think you were going to go start talking about the press release, the recent that came out in the last couple of days, but their names were on there, so they were on the panel. I don't know if they were asked to go on or whether they asked if they could go on. I don't know the process for their constructing panels. BY MR. TISI: Q. Well, since you talked about the press release that came out in the past week, you do know that the panel upon which these authors, who were authors of multiple	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	probable. Although, I looked at that document and I didn't see any new data or information or new publications that they took into account to update this decision. So I don't see any real reason it doesn't update my opinions BY MR. TISI: Q. Well A. I don't see any reason any justification for changing from the previous stance. Q. So let's look at that for a moment. Would you look at actually, this is not in your book, since it came out

Page 154 Page 156 1 look at page 15, can you put up Exhibit 1 with O'Brien's prior work, right? 2 No. 28, please? It says -- and this is 2 MS. LEHMAN: Object to form. 3 from Lancet, the Lancet publication, "Since 3 BY MR. TISI: 4 Volume 93, more consistent positive Q. And you refer to on page --5 associations for ever-use versus never-use 5 on paragraph 25B. Do you see that? A. In 25B, I see that I'm just 6 have been reported in pooled cohort studies 6 7 and case-control studies, including 7 stating that O'Brien (2020) uses data on 8 evidence of exposure-response relationship 8 ovarian cancer incidence from 2003 through 9 with frequency or duration of use." 9 September 2017 and estimates a hazard ratio 10 Do you see that? 10 summarizing an association between genital I see that's what it states 11 talc use and ovarian cancer of 1.02 for 11 A. 12 their point estimate with a 95 percent 12 there, yes. 13 Q. And they have footnotes 13 confidence interval spanning 0.76 through 14 there, right? 14 1.38. I don't see any discussion --A. They have references 15 And you said that the 16 ultimate conclusions of O'Brien (2024) was 16 presumably to publications, yes. 17 And one of those footnotes is 17 inconsistent with an association, true? 18 O'Brien (2020), which you said showed no 18 That's the whole point of paragraph 25 --19 association, true? 19 excuse me -- yeah, 25. 20 20 No, I think what I'm pointing A. So, again, like, you know, 21 that's O'Brien (2020). It's -- I've 21 out here in particular, I'm not -- I would 22 already taken that into account in my 22 have to read here your statement to say 23 whether I agree or disagree --23 opinions and it suddenly doesn't lead to 24 reliable information about an association. 24 My point is --Page 155 Page 157 1 And I notice the clear omission of O'Brien 1 Can I just finish here? I A. 2 (2024) from those. 2 just --Q. Well, I'm going to move to 3 3 Sure. I thought you were --Q. 4 strike. My question was in your report, 4 What I'm saying here in 25, 5 you said repeatedly that the results that 5 I'm just trying to answer your question is 6 show a positive association in O'Brien 6 that O'Brien (2024), the prospective 7 (2024) was inconsistent with O'Brien's 7 analysis, their clean analyses is prior work showing no association, correct? 8 prospective that avoids the risk of recall 9 MS. LEHMAN: Object to form. 9 bias, of making up data, of imputing data 10 THE WITNESS: I don't remember 10 or of correcting data and all of that stuff 11 having -- are you saying specific 11 gives you a hazard ratio of as close to one 12 words that I said or just anything 12 and a 95 percent confidence interval is 13 13 very -- it is quite right, between .79 and 14 1.33 and that's consistent with what 14 BY MR. TISI: 15 Q. Yeah, it says --15 O'Brien (2024) reports, yes. Can we go to it? I want to 16 And O'Brien (2024) as 16 17 make sure -- I just want to make sure I 17 described by O'Brien and others in the IARC 18 answer you correctly, so if we could to the 18 document printed in Lancet says that that 19 actual part of the report. supports an association, true? 19 20 Sure. I'm happy to do it. 20 MS. LEHMAN: Object to form. 21 You had said previously that one of the 21 THE WITNESS: Let's go -- can 22 things that, on page 12 of your report, 22 we go to that document if you want 23 Exhibit 1, you said that O'Brien (2024) 23 me to --24 which showed an association is inconsistent 24

	D 150		D 1(0)
1	Page 158 BY MR. TISI:	1	Page 160 This is
2	Q. Yeah, sure, go back to	2	Q. Do you agree
3	Exhibit number Jeff, can you go back to	3	MS. LEHMAN: Let him finish.
	Exhibit No. 28, please, paragraph 15. It	4	Let him finish.
	says "Since more consistent positive	5	THE WITNESS: This is just
	associations for ever-use versus never-use	6	kind of a publication, a
	have been reported in pooled cohort studies	7	commentary, I don't know what you
	and case-control studies including evidence	8	want to call it. It's stating what
	of exposure-response relationship with	9	it says. It doesn't seem to have
	frequency and duration of use."	10	gone in-depth to try to really get
11	And as part of that, they	11	at the biostatistical issues that
1	actually cite O'Brien (2020), true?	12	are going on here, but it is just a
13	A. They do indeed cite O'Brien	13	short a summary, so I don't know
14	(2020). I disagree that O'Brien (2020)	14	what they have in mind.
	demonstrates a reliable association between	l	BY MR. TISI:
16	talc use and ovarian cancer.	16	Q. Let's talk about the
17	Q. Okay. Let's so let me see	17	peer-review process and publication of this
18	if I can wrap this whole thing up.		study and the reception that it got. We
	Previously, before the O'Brien (2024) study		talked about the authors and their
	was published, the J&J lawyers in pleadings	20	qualifications and engagement in
	in this court where this case is pending	21	A. Sorry, which paper are we
	have called these NIH studies preeminent.	22	talking about, just so I make sure we're on
	Do you recall that they are preeminent in		the same page?
24	their field?	24	Q. We talked about the authors,
	Page 159		Page 161
1	MS. LEHMAN: Object to form.	1	you know which authors, okay, in the past
2	BY MR. TISI:	2	45 minutes or so, we talked about
3	Q. Based upon what you've seen	3	Wentzensen, O'Brien, Sandler
4	and what we've gone over today.	4	A. Okay. Are we talking about a
5	A. I mean, to my mind, I don't	5	specific paper though or are we just
	know what, like, you mean by "preeminent,"	6	Q. We're going to in a moment
	actually.	7	A talking as a group?
8	Q. It was J&J's words. So I'm	8	Q. You need to follow my
9	going to tell you when O'Brien (2020) was	l .	question, okay? I asked you about their
	out before O'Brien (2024), J&J told the	l	qualifications.
	court that these particular authors,	11	A. Okay.
	Wentzensen, O'Brien, Sandler were	12	Q. I asked you about their
	preeminent. Do you agree that they are		qualifications. Now, I want to talk about
	preeminent in their field?		O'Brien (2024). Okay?
15	A. I'm not	15	A. Okay.
16	MS. LEHMAN: Object to form.	16	Q. All right. Now, first of
17	THE WITNESS: I don't know	l	all, we talked about this before, O'Brien
18	what I don't know for sure what	18	(2024) was published in a peer-reviewed
19	Johnson & Johnson said and I'm not	20	journal, correct? A. Yes.
20 21	responsible for their words and I'm not able to	20 21	A. Yes. MS. LEHMAN: Asked and
	BY MR. TISI:	21 22	answered.
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$	Q. So you disagree?	l	BY MR. TISI:
24	A say I agree or disagree.	24	Q. What is peer review?
1 44	11 say i agree of disagree.	4	Q. What is poor feview:

1	Page 162		Page 164
1	A. So peer review is a process,	1	little bit of what if. What if it was
	I will admit it's an imperfect one, but		20 percent, what if it was 30 percent, or
	it's the best that we have in academia,		whatever, they're trying out a few things
	where people submit their scientific works		and saying what would change. I would sort
	to a journal, the journal, perhaps an		of reserve, I wouldn't call that
	associate editor or editor sends it out to	6	Q. Well, you know, move to
	two or three reviewers particularly that	7	strike your answer, because my question
	they think should be able to to review the		was, the question of a quantitative bias
	paper. And then the reviewers spend some	9	•
	time reviewing the paper. They give their		article. It would be hard to miss it, it's
1			in the title, true?
	accepted or not accepted, and anything they	12	MS. LEHMAN: Objection to
1	think needs correcting and then that goes	13	form.
	back to the authors and if there are	14	THE WITNESS: I already agreed
	corrections required, the authors will try	15	in quantitative bias analysis is in
	and do that. And so and it then goes	16	the title. I would disagree that
1	back to the reviewers and then the paper is	17	it's really an analysis
	typically either accepted or rejected.		BY MR. TISI:
19	Q. Okay. So it's a process,	19	Q. I understand. I'm not
1	it's a scientific process that's well		debating you right now about what they did
	accepted in the scientific community even		and what they didn't do. I'm talking about
	with its imperfections, correct?		the peer-review process. Is there any
23	MS. LEHMAN: Object to form.		possibility in your mind that the peer
24	THE WITNESS: I mean, again,		reviewers could have missed the methodology
	Page 163		Page 165
1	it's kind of I don't know,	1	point of this study, particularly since
2	there's definitely a lot of debate		it's in the title of the article?
3	about whether the process should be	3	A. Oh, absolutely, I think they
4	changed and should be improved, but	4	did miss it, yeah.
5	as it stands, this is the process	5	Q. Okay. All right. Now, the
6	that we have for peer-reviewed	6	article, so you think that the peer
7	journals and, like I said, I think	7	reviewers and the journal completely missed
8	it's accepted as the best we have		it?
9	available to us right now.	9	A. Yes, I do. Yeah, I mean,
10	BY MR. TISI:	10	it's they missed it. I don't know
1 10			· · · · · · · · · · · · · · · · · · ·
11	Q. And you would agree with me	11	what I'm surprised that a journal would
11	Q. And you would agree with me that the quantitative bias analysis that		let that go. I blame it probably on the
11 12	· · · · · · · · · · · · · · · · · · ·	12	
11 12 13	that the quantitative bias analysis that was conducted by these NIH scientists for	12 13	let that go. I blame it probably on the
11 12 13 14	that the quantitative bias analysis that was conducted by these NIH scientists for	12 13 14	let that go. I blame it probably on the associate editors for not picking the right
11 12 13 14 15	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their	12 13 14	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on
11 12 13 14 15	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in	12 13 14 15	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the
11 12 13 14 15 16 17	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct?	12 13 14 15 16 17	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the
11 12 13 14 15 16 17 18	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in	12 13 14 15 16 17 18	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for
11 12 13 14 15 16 17 18 19	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it	12 13 14 15 16 17 18	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in
11 12 13 14 15 16 17 18 19 20	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it is a major component of their paper. It's	12 13 14 15 16 17 18 19	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in your book. It was received
11 12 13 14 15 16 17 18 19 20 21	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it is a major component of their paper. It's kind of, let's say, the last third or	12 13 14 15 16 17 18 19 20 21 22	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in your book. It was received A. I'm sorry, just give me a
11 12 13 14 15 16 17 18 19 20 21 22	that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it is a major component of their paper. It's kind of, let's say, the last third or simply make that. I actually disagree with	12 13 14 15 16 17 18 19 20 21	let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in your book. It was received A. I'm sorry, just give me a

1 identification.) 2 3 BY MR. TISI: 4 Q. It's right on the screen. 5 A. Yes, the pages through the 6 binder. 7 Q. I'll blame that on Jeff. Page 166 1 A. Remind me of which number 2 that is. 2 that is. 3 Q. That is number eight. On 4 page 14, it says that the publication w 5 "Supported by an Intramural Research 6 Program of the National Institute of 7 Environmental Health Sciences, National Institute of 8 Environmental Health Sciences, National Institute of 9 Environmental Health Sciences, Nation	Page 168
2 that is. 3 BY MR. TISI: 4 Q. It's right on the screen. 5 A. Yes, the pages through the 6 binder. 2 that is. 3 Q. That is number eight. On 4 page 14, it says that the publication w 5 "Supported by an Intramural Research 6 Program of the National Institute of	<i>C</i> 1
3 BY MR. TISI: 4 Q. It's right on the screen. 5 A. Yes, the pages through the 6 binder. 3 Q. That is number eight. On 4 page 14, it says that the publication w 5 "Supported by an Intramural Research 6 Program of the National Institute of	
4 Q. It's right on the screen. 5 A. Yes, the pages through the 6 binder. 4 page 14, it says that the publication w 5 "Supported by an Intramural Research 6 Program of the National Institute of	
5 A. Yes, the pages through the 6 binder. 5 "Supported by an Intramural Research 6 Program of the National Institute of	200
6 binder. 6 Program of the National Institute of	
	.1
7 O. I'll blame that on Jeff. 7 Environmental Health Sciences, Nation	nal
7 Q. I'll blame that on Jeff. 7 Environmental Health Sciences, Nation 8 A. All right. 8 Institutes of Health."	mai
9 Q. If you look at the very 9 Do you see that?	
10 bottom, it's on the screen as well, it was 10 A. On page 14, where are we	
11 received for publication in September of 11 looking at? Sorry.	
12 2023, revised in January 2024. Accepted 12 Q. Support.	
13 for publication in March of 2024 and 13 A. Under support.	
14 published in May of 2024. So this whole 14 Q. The second column at the v	erv
15 process took about eight or nine months, 15 end of the article.	Ciy
16 correct? 16 Do you see that?	
17 A. That's not unusual for 17 A. Yes, I do.	
18 Q. And you claim that the 18 Q. All right. And so it's	
19 authors, the peer reviewers and everybody 19 supported through an NIH grant, corresponding to the control of the corresponding to t	ect?
20 involved has missed it, right? 20 A. Intramural grant, so that's	cci.
21 A. Sorry, what is it that you're 21 within the NIH. So I don't know that	it'e
22 talking about specifically? 22 a typical NIH grant	103
23 Q. The methodology concerns that 23 Q. Correct.	
24 you identify in your report, Exhibit 1. 24 A paid for by	
Page 167	Page 169
1 A. They absolutely missed it, 1 Q. Correct. Do you understand	_
2 yes. 2 that intramural grants, publications th	
3 Q. Okay. 3 are as a result of an intramural grant b	
4 A. Well, I don't know if there's 4 NIH scientists when they publish a pa	-
5 a comment and the associate editor ignored 5 in addition to undergoing peer review	•
6 it, I don't know about the inner workings, 6 the journal, the article is actually	•
7 but the final paper has these flaws in it. 7 submitted to the NIH for their approv	al?
8 I mean 8 A. You know, I don't know wh	at
9 Q. Do you have any reason I'm 9 process they actually go through in th	e
10 sorry. Sorry. I apologize, sir, I'm not 10 NIH, but I don't know what they're lo	oking
11 intentionally talking over you.	-
12 A. No problem. 12 Peer review is when it goes out to	
Q. Do you have any reason to 13 somebody, to blinded reviewers that a	are
14 believe that these authors did not respond	
15 to every one of the peer reviewer comments 15 this is not peer review. It may be an	
16 that were made about this paper? 16 extra stage of review. And I don't known	ow
17 A. I don't have any reason to 17 what they're reviewing it for, just who	ether
18 believe that. What I believe is that 18 there are things that the NIH clearly	
19 reviewers looked at the paper on the 19 doesn't agree with. I mean, you can s	ee,
20 surface level and did not dig in and pick 20 there's a disclaimer here that the Nation	onal
21 up on these very clear problems in the 21 Institutes of Health holds has no roll	le
22 biostatistical methods. 22 in the design, conduct, or interpretation	on
23 Q. Now, if you go back to 23 of this study. That's typical of the NI	Н,
24 O'Brien (2024) 24 they don't take responsibility for any	

1	D 150		D 170
	Page 170 studies that they hand out grants here.	1	Page 172 MS. LEHMAN: Object to form.
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. I'm sorry, you froze. Did I	2	THE WITNESS: I didn't hear
3	interrupt your answer? I apologize, you	$\frac{2}{3}$	BY MR. TISI:
	froze.	4	Q. Feature the article, it
5		5	highlighted the article and published it on
6	A. No, you didn't interrupt. I'm fine.	6	the NIH website for the world to see
7	Q. My point here is this, in	7	because it was an important study, true?
8	addition to the normal peer review to	8	MS. LEHMAN: Object to form.
9	appear in a publication, this article had	9	THE WITNESS: I think that's a
	to be submitted by the authors to the NIH	10	stretch to make that conclusion
	for its approval, correct?	11	there.
12	A. I mean, I understand there's		BY MR. TISI:
	some kind of process, I don't know what	13	Q. Okay.
	that process entails, but I would not call	14	A. Now, at UCSF, in our
1	it peer review, no, sir.	l	department, people write papers and we put
16	Q. Okay. But NIH clearly knew		out little sort of statements as kind of a
17	about it and clearly had the ability to	l	sales pitch for the research that you do.
	comment on this paper, true?		And I don't know that the NIH thing was
19	MS. LEHMAN: Object to form.		anything beyond that really.
20	THE WITNESS: You know, I	20	Q. Okay. Well, how many of your
21	really don't know if that's	21	papers have been featured by UCSF,
22	correct. Because, again, I don't		featured, put on the website and saying
23	know what whether they're		this is what you need to pay attention to?
24	reviewing it with respect to	24	A. I really don't know and I
	Page 171		Page 173
1	whether it violates a condition of	1	think there may have been one or two, I'm
2	an NIH grant that is awarded		not sure, but I tend to be try to be
3	intramurally, I don't know the		modest. So often to get the department
4	process, but	4	kind of solicits you to try and send them
_	BY MR. TISI:		kind of solicits you to try and send them
5	DI MR. HSI.	5	information when you've published a paper.
6	Q. Well, the NIH I'm sorry.		· · · · · · · · · · · · · · · · · · ·
_		6	information when you've published a paper.
6 7	Q. Well, the NIH I'm sorry.	6 7	information when you've published a paper. I tend to not really want to do it. I
6 7 8 9	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to	6 7 8	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest.
6 7 8 9 10	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's	6 7 8 9 10	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH
6 7 8 9 10 11	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It	6 7 8 9 10 11	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it
6 7 8 9 10 11 12	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken	6 7 8 9 10 11 12	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at
6 7 8 9 10 11 12 13	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules.	6 7 8 9 10 11 12 13	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on
6 7 8 9 10 11 12 13 14	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating	6 7 8 9 10 11 12 13 14	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting the
6 7 8 9 10 11 12 13 14 15	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't	6 7 8 9 10 11 12 13 14 15	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting the highlighting O'Brien (2024). And it says
6 7 8 9 10 11 12 13 14 15 16	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside	6 7 8 9 10 11 12 13 14 15 16	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting the highlighting O'Brien (2024). And it says "New study by NIEHS scientists provides
6 7 8 9 10 11 12 13 14 15 16 17	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside my scope in a way.	6 7 8 9 10 11 12 13 14 15 16 17	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting thehighlighting O'Brien (2024). And it says "New study by NIEHS scientists provides compelling evidence that genital talc use
6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside my scope in a way. Q. But the NIH didn't have to	6 7 8 9 10 11 12 13 14 15 16 17 18	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting thehighlighting O'Brien (2024). And it says "New study by NIEHS scientists provides compelling evidence that genital talc use is associated with an increased risk of
6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside my scope in a way. Q. But the NIH didn't have to feature the article, did it, which you know	6 7 8 9 10 11 12 13 14 15 16 17 18	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting the highlighting O'Brien (2024). And it says "New study by NIEHS scientists provides compelling evidence that genital talc use is associated with an increased risk of ovarian cancer," true?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside my scope in a way. Q. But the NIH didn't have to feature the article, did it, which you know it did?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting thehighlighting O'Brien (2024). And it says "New study by NIEHS scientists provides compelling evidence that genital talc use is associated with an increased risk of ovarian cancer," true? A. It's true that that is what's
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside my scope in a way. Q. But the NIH didn't have to feature the article, did it, which you know it did? A. What's that?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting the highlighting O'Brien (2024). And it says "New study by NIEHS scientists provides compelling evidence that genital talc use is associated with an increased risk of ovarian cancer," true?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Well, the NIH I'm sorry. A. The NIH, again, it won't take responsibility for the work in there. It won't sort of so if it's not going to take responsibility, I don't see how it's kind of a real review of the science. It may be a review that they haven't broken any NIH rules. Q. You're speculating A. No, I don't know. I don't have internal mechanisms, so it's outside my scope in a way. Q. But the NIH didn't have to feature the article, did it, which you know it did? A. What's that?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	information when you've published a paper. I tend to not really want to do it. I don't think it helps my academic career and I don't love to be featured on websites, to be honest. Q. Let's look at what the NIH actually said about the study, which it didn't have to do, we agree. Let's look at Exhibit No. 4. This is a publication on the NIH website highlighting thehighlighting O'Brien (2024). And it says "New study by NIEHS scientists provides compelling evidence that genital talc use is associated with an increased risk of ovarian cancer," true? A. It's true that that is what's

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Page 174 Page 176 1 Exhibit 4 for identification.) 1 what you're saying, I followed there, and 2 2 then I got lost, I didn't see. I see the 3 BY MR. TISI: 3 quote --4 Q. Okay. But --4 Actually, it says "An Q. 5 I don't agree with the 5 especially unique aspect of the study was 6 statement, but it is stated there. 6 the use of quantitative bias analysis to 7 7 assess the impact of potential errors in I understand, but you've 8 disagreed with the peer reviewers, you've 8 reporting use of intimate care products, 9 disagreed with the journal, and now you're 9 including possible differential reporting 10 disagreeing with the NIH, correct? 10 related to being diagnosed or not diagnosed 11 MS. LEHMAN: Object to form. 11 with cancer," true? 12 THE WITNESS: You know, what 12 A. I'm sorry. You were reading, 13 you say explicitly is correct, I'm 13 I thought, from the bottom paragraph and 14 disagreeing with all of them --14 you went up a bit --15 BY MR. TISI: 15 Q. No, I'm not. Let's look at 16 the paragraph I've highlighted on the 16 Q. Okay. 17 -- but I believe that most of 17 screen. A. 18 them have just taken what O'Brien said on 18 A. Sorry. 19 their paper at face value without really 19 O. The highlighted paragraph on 20 digging in there. So if you don't look at 20 the screen focuses on the quantitative bias 21 the paper and you don't examine the 21 analysis performed by the authors and 22 analysis and you just say, oh, they did 22 highlights it as a particularly unique, I 23 recall bias, great. Oh, they did 23 think that is the word they use, rigorous 24 corrections, great. But they're not great, 24 and unique feature of the study, true? Page 175 Page 177 1 because they're flawed and they're made up 1 A. It's --2 MS. LEHMAN: Object to form. 2 and they're artificial. Okay. So now let's look at 3 THE WITNESS: I didn't follow 3 4 what the -- the NIH in it's brief summary 4 exactly the wording you said as you 5 here actually focuses on the methods, don't 5 were reading it, but --6 they? 6 BY MR. TISI: Well, let's read it together 7 A. Can you point me to where you 7 8 think they do? 8 9 Sure, it says, the third What is actually stated there 10 paragraph down, it says "This extensive 10 in meaning, but I do not agree that that's 11 analysis, conducted using information 11 a review of the methods that they used. 12 collected by the Sister Study cohort, 12 They're just parroting what was in the --13 revisits the association between intimate 13 the authors said they did in the paper. 14 There's nothing in there that implies in 14 care products and cancer and incorporates 15 rigorous adjustments for biases that might 15 any way that these people understood what 16 have affected the results of earlier 16 these methods were, that they were really 17 studies. The study analyzed data from a 17 just, correcting means flipping people over 18 cohort of women who were initially 18 from one side to the other, that imputation 19 cancer-free who reported their intimate use 19 means that you bring in the recall bias 20 of intimate care products like genital talc 20 that you found in the data you've already 21 collected and that you're making 21 and douching over time. An especially 22 unique aspect of the study was the use of 22 assumptions about things that you don't

24

23 really know.

Q.

Okay.

24

23 quantitative bias analysis to assess -- "

I got the first sentence of

	Page 178		Page 180
1	A. So overall, no, I don't	1	BY MR. TISI:
2	believe	2	Q. Let me rephrase it then
3	Q. So far	3	A. They did not go and actually
4	A. I don't believe that these		examine what the analyses are.
5	people have in any way examined the	5	Q. Let me rephrase the
6	analysis methods in the paper.		question
7	Q. Even though they said that,	7	A. There's a common flaw in
	right, even though they said that	8	reviewing papers where they just accept
9	A. They are just parroting what	9	that things at face value without actually
	is there in the paper		
11	Q. Actually, they're not		on there.
1	parroting or quoting the paper at all,	12	Q. Let me rephrase the question
	look, I'm not fussing with you here. But		so that we get the "it" right, okay?
1	they say the cohort that this revisits	14	A. Okay.
	the association between intimate care	15	Q. The peer reviewers did not
	products and cancer and incorporates		understand or fully appreciate the errors
1	rigorous adjustments for bias that might		in the methodology. The editors didn't
1	have affected the results of earlier		understand or appreciate the methodology.
1	studies. And then it goes on to say,		The authors didn't understand or appreciate
1	especially, "An especially unique aspect of		the errors in methodology. The NIH didn't
1	the study was the use of quantitative bias		understand or appreciate the errors in the
1	analysis to assess the impact of potential		methodology. All of those people got it
	errors in reporting use of intimate care		wrong, right?
1	products, including possible differential	24	MS. LEHMAN: Object to form.
	Page 179		Page 181
1	Page 179 reporting related to being diagnosed or not	1	Page 181 THE WITNESS: So you've gone
1	reporting related to being diagnosed or not	1 2	THE WITNESS: So you've gone
1	reporting related to being diagnosed or not diagnosed with cancer," correct?	1 2 3	
2 3	reporting related to being diagnosed or not diagnosed with cancer," correct? A. Again, those are the words	2	THE WITNESS: So you've gone back to got it wrong again BY MR. TISI:
2 3 4	reporting related to being diagnosed or not diagnosed with cancer," correct? A. Again, those are the words that these people write down. They are	2 3	THE WITNESS: So you've gone back to got it wrong again BY MR. TISI: Q. They didn't appreciate the
2 3 4 5	reporting related to being diagnosed or not diagnosed with cancer," correct? A. Again, those are the words that these people write down. They are just paraphrasing what is in the O'Brien	2 3 4 5	THE WITNESS: So you've gone back to got it wrong again BY MR. TISI: Q. They didn't appreciate the errors in the methodology, correct?
2 3 4 5 6	reporting related to being diagnosed or not diagnosed with cancer," correct? A. Again, those are the words that these people write down. They are just paraphrasing what is in the O'Brien paper. You really want an analysis that	2 3 4 5 6	THE WITNESS: So you've gone back to got it wrong again BY MR. TISI: Q. They didn't appreciate the errors in the methodology, correct? A. They either didn't appreciate
2 3 4 5 6 7	reporting related to being diagnosed or not diagnosed with cancer," correct? A. Again, those are the words that these people write down. They are just paraphrasing what is in the O'Brien paper. You really want an analysis that doesn't suffer from recall bias and so on,	2 3 4 5 6 7	THE WITNESS: So you've gone back to got it wrong again BY MR. TISI: Q. They didn't appreciate the errors in the methodology, correct? A. They either didn't appreciate or they ignored or they didn't have the
2 3 4 5 6 7 8	reporting related to being diagnosed or not diagnosed with cancer," correct? A. Again, those are the words that these people write down. They are just paraphrasing what is in the O'Brien paper. You really want an analysis that	2 3 4 5 6 7 8	THE WITNESS: So you've gone back to got it wrong again BY MR. TISI: Q. They didn't appreciate the errors in the methodology, correct? A. They either didn't appreciate
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Page 182 Page 184 1 group that didn't understand or appreciate 1 ASCO. 2 the errors that you've identified is the 2 Q. She gives her phone number 3 American Association of Clinical 3 and her email address. Did you reach out 4 Oncologists, true? 4 to her and tell her, you don't think this 5 A. I think I would like you to 5 is a particularly good study, did you? 6 make the question more specific --No, but I think -- I didn't 6 7 Q. Okay. 7 do that and, again, I've explained that I'm -- I mean, in this group, 8 A. 8 not reaching out to people on the basis of 9 there's going to be a lot of people, I 9 I have been asked to independently review 10 don't know what all these people's 10 this paper and I assume I am under sort of 11 different opinions are, so --11 confidentiality constraints and I don't 12 want to break those. 12 Well, let's talk about Are any of the -- are any of 13 somebody else who missed it. Let's look at 13 O. 14 Exhibit No. 5. 14 the articles upon which you relied in 15 A. Okay. 15 support of your position confidential? 16 They're all published literature, correct? 16 17 (ASCO Publication marked 17 They are all published 18 Kornak Exhibit 5 for 18 literature, but if I start talking to 19 19 people about them, then it becomes -- then identification.) 20 20 I become -- I'm talking about the case and 21 BY MR. TISI: 21 I don't -- that's where I assume I'm 22 And this is a statement by 22 breaking confidentiality. 23 the American Society of Clinical Oncology. 23 Q. Do you agree that, generally Do you see that? 24 speaking, the peer-review process and not 24 Page 183 Page 185 1 Yes, and I've seen this 1 the courtroom provides the best mechanism A. 2 previously. 2 for resolving scientific uncertainty 3 relating to methodologic analysis of 3 All right. And if you look 4 at page 4, "The American Society of 4 complex scientific issues? 5 Clinical Oncology is committed to the 5 Well, it depends what you 6 principle and the knowledge conquers 6 mean by "best" here, because what the 7 cancer. Together with the Association for 7 complex -- I don't know if peer review 8 Clinical Oncology, ASCO represents nearly 8 really resolves complex scientific issues. 9 50,000 oncology professionals who care for 9 Peer review kind of, like, reviews the 10 people living with cancer." 10 paper to see if there are problems with the 11 Do you see that? 11 paper, if it's flawed, but they're not --12 Yes. 12 peer review doesn't try to resolve disputes A. 13 Q. Okay. Now, if you go to the 13 in science. 14 front of the paper I just showed you, they 14 Okay. So you would disagree 15 say this is -- go to page 1, please. This 15 with that statement that the peer-review 16 is the ASCO perspective, the perspective of 16 process and not the courtroom is the best 17 mechanism for resolving scientific 17 the organization, true? 18 I mean, I don't think all 18 uncertainties relating to methodologic 19 50,000 members of ASCO contributed to this 19 analysis of complex scientific data? 20 article. I would assume there was some 20 A. I think I said it depends and 21 small group or maybe even just one person, 21 that's what I'm sticking with, it really 22 I don't know. Maybe it was just Naomi 22 depends on --23 Hagelund who is listed at the top that is 23 Q. In this case, do you --24 writing this in some way at the request of 24 I mean, it's like --

	Page 186		Page 188
1	Q. In this case	1	quite clearly that even with their belief
2	A. I don't think either is the	1	that O'Brien (2024) was correct, when they
3	best approach	3	talk about the significance, they talk
4	Q. Okay.	1	about needing further research and
5	A of solving complex		potential reevaluation. These are all sort
6		6	of qualified statements. So even from the
7	Q. Okay. Now, going back to	7	journal that is backing the paper that
8	Exhibit No. 5, the main takeaway of the	1	they've published, they still have all
1	article is from the perspective of ASCO,	1	these qualified statements in there.
	the organization, is "Genital talc use was	10	Q. All right. So with respect
1	found to be positively associated with the	11	to the methodology, which is what you're
	risk of ovarian cancer across multiple	1	here to talk about, on the next page it,
1	scenarios, even after adjusting for	1	says it "provides compelling evidence that
	potential reporting biases and	1	genital talc use associated with an
	misclassification. The association was	15	increased risk of ovarian cancer."
16	particularly strong among women who used	16	Do you see that?
1	talc frequently or especially during	17	A. I see that's written there.
	periods of specific hormonal changes or	18	I don't agree with it.
19	reproductive activity." Right?	19	Q. And the last sentence says
20	A. That is what it states, yes.	20	"They incorporate rigorous adjustments for
21	Q. Okay. And they got it wrong	21	biases that may have affected earlier
22	too, they missed the methodologic flaws of	22	studies."
23	the study, true?	23	Do you see that?
24	A. I don't think I mean, I	24	A. Again, I'm sorry. Yes, I see
	Page 187		Page 189
1	can walk you through piece by piece here if	1	it actually says those words there.
2	you want	2	Q. Right. And so they
3	Q. We're going to, but they got	3	A. I don't agree with that.
	Q. We're going to, but they got it wrong?	3 4	
			A. I don't agree with that.
4 5	it wrong?	4	A. I don't agree with that.Q. And you disagree with it,
4 5	it wrong? A. Like I said, I can walk you through piece by piece of what the problems	4 5	A. I don't agree with that. Q. And you disagree with it, right?
4 5 6 7 8	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it,	4 5 6 7 8	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not
4 5 6 7 8 9	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir	4 5 6 7 8 9	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In
4 5 6 7 8 9 10	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right	4 5 6 7 8 9	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they
4 5 6 7 8 9 10 11	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that.	4 5 6 7 8 9 10 11	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that. I can walk you through the problems with the statement. Again, I think they took what's in O'Brien at face value and first of all, there is no adjusting here for potential reporting biases. Adjusting in biostatistics means you include variables within your modeling and you	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when they do all there's a Scenario 3 where they flip everyone and then there's a multiple imputation where they bring in recall bias, but none of the other analyses have Q. And Scenario 2 is when they say everybody is negative, right? Scenario
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that. I can walk you through the problems with the statement. Again, I think they took what's in O'Brien at face value and first of all, there is no adjusting here for potential reporting biases. Adjusting in biostatistics means you include variables within your modeling and you adjust them within your modeling. There	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when they do all there's a Scenario 3 where they flip everyone and then there's a multiple imputation where they bring in recall bias, but none of the other analyses have Q. And Scenario 2 is when they say everybody is negative, right? Scenario 2 is where everybody is a nonuser and then
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that. I can walk you through the problems with the statement. Again, I think they took what's in O'Brien at face value and first of all, there is no adjusting here for potential reporting biases. Adjusting in biostatistics means you include variables within your modeling and you adjust them within your modeling. There was no incorporation of these variables as	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when they do all there's a Scenario 3 where they flip everyone and then there's a multiple imputation where they bring in recall bias, but none of the other analyses have Q. And Scenario 2 is when they say everybody is negative, right? Scenario 2 is where everybody is a nonuser and then Scenario 3 is everybody is a user, right,
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that. I can walk you through the problems with the statement. Again, I think they took what's in O'Brien at face value and first of all, there is no adjusting here for potential reporting biases. Adjusting in biostatistics means you include variables within your modeling and you adjust them within your modeling. There was no incorporation of these variables as adjustments in the model. That's not true.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when they do all there's a Scenario 3 where they flip everyone and then there's a multiple imputation where they bring in recall bias, but none of the other analyses have Q. And Scenario 2 is when they say everybody is negative, right? Scenario 2 is where everybody is a nonuser and then Scenario 3 is everybody is a user, right, and they did that to restore the range of
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	it wrong? A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that. I can walk you through the problems with the statement. Again, I think they took what's in O'Brien at face value and first of all, there is no adjusting here for potential reporting biases. Adjusting in biostatistics means you include variables within your modeling and you adjust them within your modeling. There was no incorporation of these variables as adjustments in the model. That's not true. So it's just plain false. So, in that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when they do all there's a Scenario 3 where they flip everyone and then there's a multiple imputation where they bring in recall bias, but none of the other analyses have Q. And Scenario 2 is when they say everybody is negative, right? Scenario 2 is where everybody is a nonuser and then Scenario 3 is everybody is a user, right, and they did that to restore the range of the product
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Like I said, I can walk you through piece by piece of what the problems are with this statement Q. We're going to talk about it, sir A. I'm not saying they're right or wrong. It's more complicated than that. I can walk you through the problems with the statement. Again, I think they took what's in O'Brien at face value and first of all, there is no adjusting here for potential reporting biases. Adjusting in biostatistics means you include variables within your modeling and you adjust them within your modeling. There was no incorporation of these variables as adjustments in the model. That's not true.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. I don't agree with that. Q. And you disagree with it, right? A. I disagree that these are rigorous adjustments and I can be quite clear why, because their analyses are not all showing positive associations. In fact, the only ones that do are when they do all of the multiple imputation and when they do all there's a Scenario 3 where they flip everyone and then there's a multiple imputation where they bring in recall bias, but none of the other analyses have Q. And Scenario 2 is when they say everybody is negative, right? Scenario 2 is where everybody is a nonuser and then Scenario 3 is everybody is a user, right, and they did that to restore the range of

1	Page 190 Okov. Woll, we're going to	1	Page 192
1		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	opinion. I'm just using if I
1	talk about that. But let's wrap this	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	hadn't seen that, I would say yes,
	section up. We've gone through the peer		this is an editorial. All I got
1	review by JCO, the review by NIH oh, one	4	from that is that I'm not saying
	more issue. Actually, there is one more.	5	that it isn't, I'm just saying I
	Let's look at Exhibit No. 6. You don't	6	don't know and that just raises
	address this in your report, but it's in	7	some doubt. But, no, I'm not
	your it's actually in your materials	8	taking his opinion.
	that you reviewed. There was an editorial		BY MR. TISI:
	that actually accompanied this article,	10	Q. Okay. So this is I will
	correct?		suggest to you that this is an invited
12	, 1 1		editorial by the authors, but whether it is
	here, you know, I don't know what that		or it is not, this is an editorial
	it's I read, I think I read in one		submitted to the journal which published
	deposition that it isn't really an	15	1 1
	editorial, it's a letter to the editor,	-	true?
	but	17	A. It's a paper that talks about
18			what the authors perceive or want to
	referring to?		perceive from reading the O'Brien paper.
20		20	Q. And one of the authors is, as
	Diette.		you know, is actually and has been
22			published in the world of talc and ovarian
	your own independent review of this		cancer, correct, Dr. Terry?
24	evidence or are you relying on Dr. Diette?	24	A. Now, is that a name we've
	Page 191		Page 193
1	A. No, I did my own independent		already come across on one of the
2	review, I'm just I would like to answer	2	publications?
3		3	Q. Yeah. It was actually in the
4	•		Lancet article.
5		5	A. Okay.
6	THE WITNESS: Sorry.	6	Q. And if you go to Exhibit
7	THE CTEMOOD A DIJED. Washe		• •
	THE STENOGRAPHER: You're	7	No. 7, there is an article "Genital Powder
8	talking over each other and we had		
9	talking over each other and we had and objection. I think there was	8 9	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855
9 10	talking over each other and we had and objection. I think there was an objection. I didn't hear the	8 9	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls."
9 10 11	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection	8 9	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that?
9 10 11 12	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to	8 9 10 11 12	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're
9 10 11	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to	8 9 10 11 12 13	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were
9 10 11 12	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question.	8 9 10 11 12 13	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're
9 10 11 12 13	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question.	8 9 10 11 12 13	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a
9 10 11 12 13 14	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question.	8 9 10 11 12 13 14	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a
9 10 11 12 13 14 15	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for	8 9 10 11 12 13 14 15	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one?
9 10 11 12 13 14 15 16	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for identification.)	8 9 10 11 12 13 14 15 16	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one? Q. No, this is, one of the
9 10 11 12 13 14 15 16 17 18	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for identification.)	8 9 10 11 12 13 14 15 16 17	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one? Q. No, this is, one of the authors in Harris is Terry, correct?
9 10 11 12 13 14 15 16 17 18	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for identification.)	8 9 10 11 12 13 14 15 16 17 18	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one? Q. No, this is, one of the authors in Harris is Terry, correct?
9 10 11 12 13 14 15 16 17 18	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for identification.) BY MR. TISI: Q. Let's actually	8 9 10 11 12 13 14 15 16 17 18	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one? Q. No, this is, one of the authors in Harris is Terry, correct? A. Yes.
9 10 11 12 13 14 15 16 17 18 19 20	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for identification.) BY MR. TISI: Q. Let's actually MS. LEHMAN: Let him finish.	8 9 10 11 12 13 14 15 16 17 18 19 20	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one? Q. No, this is, one of the authors in Harris is Terry, correct? A. Yes. (Terry Paper 2013 marked
9 10 11 12 13 14 15 16 17 18 19 20 21	talking over each other and we had and objection. I think there was an objection. I didn't hear the objection MS. LEHMAN: Yes, I object to the form of the question. (Harris 2024 Article marked Kornak Exhibit 6 for identification.) BY MR. TISI: Q. Let's actually MS. LEHMAN: Let him finish. He hasn't answered.	8 9 10 11 12 13 14 15 16 17 18 19 20 21	No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855 Controls." Do you see that? A. Okay. I'm sorry, you're going to a little fast. I thought we were on the Harris paper. We're moving to a different one? Q. No, this is, one of the authors in Harris is Terry, correct? A. Yes. (Terry Paper 2013 marked Kornak Exhibit 7 for

	Page 194		Page 196
1	BY MR. TISI:	1	O'Brien (2024) paper, also focuses on
2	Q. And Terry actually has	2	unique methods actually performed by
3	written in this space, this isn't somebody	3	O'Brien (2024), correct?
	who just parachuted in with no knowledge of	4	MS. LEHMAN: Object to form.
5	what the background of talc and ovarian	5	THE WITNESS: I don't think it
	cancer was, true?	6	does. I think it's a it doesn't
7	A. Yeah, this person has been	7	focus on that. It's kind of an
	involved in the field.	8	overall kind of summary thing and,
9	Q. Okay. And she's publishing	9	you know, again, they sort of kind
^	here on the behalf of the American Cancer	10	of paraphrase what the authors of
	Association Consortium, do you see that, at	11	the paper said they do, but they
	the very bottom?	12	don't go into any detail as what
13	MS. LEHMAN: Object to form.	13	these reclassification exposures
14	THE WITNESS: I don't know if	14	are. They don't talk about why is
15	she is I mean, yeah, that the	15	80 percent a good exposure for one
16	author list ends with on behalf of	16	group whereas is 90 percent a good
17	the Ovarian Cancer Association	17	exposure for a reclassification for
18	Consortium, but we have to be	18	another group. Even the takeaway
19	careful as to what that means. I'm	19	here, they're very kind of vague
20	also part of, like, various	20	about how far they're willing to go
21	consortiums where that kind of	21	with what's stated here. They just
22	ending appears on the author list.	22	say these data suggest that people
23	But it doesn't mean that there's	23	who are at risk for ovarian cancer
24	whatever association that we're	24	should be made aware of the
24		24	
1	Page 195 publishing on behalf of takes	1	Page 197 potential risks. These are, like,
2	responsibility for the paper.	2	very couched statements and, like,
3	BY MR. TISI:	3	again, doesn't point to a reliable
4	Q. So let's go back to the	4	association between talc use and
5	editorial that she wrote in connection	5	ovarian cancer.
-	that Dr. Terry wrote in connection with the		BY MR. TISI:
	O'Brien (2024) paper.	7	Q. Move to strike. That was not
8	A. Yes.		question.
9	Q. Okay. It says "In the	9	My question was, they
-	article that accompanies this editorial,"	_	acknowledge the methodology used to examine
11	the third paragraph, "O'Brien et. al. use a		quantitative bias analysis and recall bias
1	variety of methods to address the impact of		scenarios, it acknowledges that in the
12			
	· · · · · · · · · · · · · · · · · · ·	l .	
13	bias and misclassification on the	13	editorial, correct?
13 14	bias and misclassification on the association between intimate care products,	13 14	editorial, correct? A. Again, if you just mean by
13 14 15	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and	13 14 15	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they
13 14 15 16	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a	13 14 15 16	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien
13 14 15 16 17	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These	13 14 15 16 17	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they
13 14 15 16 17 18	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These include quantitative bias analysis to	13 14 15 16 17 18	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they did, then, yes, they do paraphrase that.
13 14 15 16 17 18 19	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These include quantitative bias analysis to examine different exposure reporting	13 14 15 16 17 18 19	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they did, then, yes, they do paraphrase that. Q. All right. So we've gone
13 14 15 16 17 18 19 20	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These include quantitative bias analysis to examine different exposure reporting scenarios, as well as reclassifying	13 14 15 16 17 18 19 20	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they did, then, yes, they do paraphrase that. Q. All right. So we've gone through the peer review by JCO, the Journal
13 14 15 16 17 18 19 20 21	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These include quantitative bias analysis to examine different exposure reporting scenarios, as well as reclassifying exposures to address recall bias," correct?	13 14 15 16 17 18 19 20 21	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they did, then, yes, they do paraphrase that. Q. All right. So we've gone through the peer review by JCO, the Journal of Clinical Oncology, the NIH document, the
13 14 15 16 17 18 19 20 21 22	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These include quantitative bias analysis to examine different exposure reporting scenarios, as well as reclassifying exposures to address recall bias," correct? A. That is what it states.	13 14 15 16 17 18 19 20 21 22	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they did, then, yes, they do paraphrase that. Q. All right. So we've gone through the peer review by JCO, the Journal of Clinical Oncology, the NIH document, the Harris editorial, the JSCO paper, you
13 14 15 16 17 18 19 20 21 22 23	bias and misclassification on the association between intimate care products, (i.e. genital powder use and douching) and ovarian cancer in the Sister Study, a prospective cohort of U.S. women. These include quantitative bias analysis to examine different exposure reporting scenarios, as well as reclassifying exposures to address recall bias," correct?	13 14 15 16 17 18 19 20 21 22 23	editorial, correct? A. Again, if you just mean by acknowledging if, we just mean that they paraphrase what was said in the O'Brien description in their paper of what they did, then, yes, they do paraphrase that. Q. All right. So we've gone through the peer review by JCO, the Journal of Clinical Oncology, the NIH document, the

	D 100		D 400
1	Page 198 litigation did not do the kind of rigor	1	Page 200 BY MR. TISI:
	analysis that you did as a paid expert for	2	Q that you know of?
3	Johnson & Johnson, true?	3	A. Okay. I mean, that was a
4	A. I don't know why they didn't		really long question and there was you
5	dig into the analysis methods. I'm not	5	said, like, notoriety I think
6	sitting here trying to ascribe motives or	6	Q. Let me rephrase
7	anything. You know, as you see in my	7	A. Notoriety is kind of a
1	report, I go into the details of what the		negative
	problems are. And I point to why they're	9	Q. Let me withdraw the question.
	problems. And the clean analysis of the		I will withdraw the question. Other than
	paper, Table A2, clearly that prospective,		you and Dr. Diette and maybe Dr. Merlo who
	careful analysis, at least careful as far		are paid experts by Johnson & Johnson, have
1	as I can tell, is indicative of no.		you seen any scientists come forward and
14	Q. Okay. And other than paid		express any concerns with this paper in a
l	experts like yourself and Dr. Diette,		public forum?
	nobody else has expressed the opinion that	16	MS. LEHMAN: Objection. Asked
	you have expressed hear, true?	17	and answered.
18	A. I don't know	18	THE WITNESS: I mean, I
19	MS. LEHMAN: Object to form.	19	haven't, but I would be very
20	THE WITNESS: what other	20	surprised on how they would be.
21	people have expressed outside of	21	There's been the paper was
22	what I've read and heard. I don't	22	published May 20, it has been a
23	know of anybody that's but I do	23	month and two weeks. You already
24	know that there are experts out	24	pointed out how the peer-review
24		24	
1	Page 199 there that would look at the	1	Page 201 process could take over a year,
2	methods here and would determine	2	so
3	that they're clearly problematic,	3	BY MR. TISI:
4	because they are. It's just	4	Q. So the answer would be no?
5	BY MR. TISI:	5	MS. LEHMAN: Please let him
6	Q. All right. So let me just	6	finish.
	let me just break that down. And,	7	MR. TISI: He has not seen
	actually, I'm going to move to strike the	8	any you have not seen anybody in
	answer as nonresponsive.	9	a speech, a commentary, a letter,
10	My question is, it is now	10	anywhere other than J&J's experts
l	mid July, this paper was published to great	11	that were paid to criticize this
	notoriety in May, okay. It has been	12	paper; is that true or not true?
	reviewed and commented on by the NIH, JSCO,	13	MS. LEHMAN: Objection. Asked
	an editorial that accompanied the paper and	14	and answered.
	all kind of those things, and I understand		BY MR. TISI:
	you think they're just parroting what the	16	Q. It is true, isn't it?
	author says. I got it.	17	A. I have already said that I'm
18	My question is, has anybody		not aware of anyone that's dug into this in
l	that has not been paid by J&J put their		detail and picked up on the issues that
	name on it, either a paper or a speech or a		I've expressed.
∠U	publication which in any way criticized	20	Q. All right. So let's talk
			about O'Brien. We want to get into the
21			arean Vidical We wall to yel illio ille
21 22	this paper MS_LEHMAN: Object to form		——————————————————————————————————————
21	MS. LEHMAN: Object to form. Asked and answered.	23	methods, let's get into the methods. You would agree that O'Brien (2024)

	Page 202		Page 204
1	A. Can I ask that if we're going	1	particular period of time, is related to
	to be starting kind of a new section that		the risk of ovarian cancer. That's the
3	maybe we take a five-minute break?	3	ultimate research question, right?
4	MR. TISI: I have no problem	4	MS. LEHMAN: Object to form.
5	with that. Thank you. This is a	5	THE WITNESS: You know, when
6	good time to do it.	6	you say
7	THE WITNESS: Great. Thank		BY MR. TISI:
8	you.	8	Q. You mention it in your
9	MR. TISI: Five minutes, if		report, so let's talk about it.
10	you don't mind. If you want to	10	A. Okay.
11	take longer, that's fine with me as	11	Q. On page 7 on paragraph 17
12	well.		of your report, you say the goal is to
13	won.		estimate the association between genital
14	(A recess was taken at this time.)		talc use and ovarian cancer. That's the
15			ultimate goal, you want to know whether or
	BY MR. TISI:		not there is an association between genital
17	Q. So I spent the time talking		talc use and ovarian cancer. That's the
	about the peer-review process and multiple		ultimate point of all these studies, right?
	levels of review and the authors	19	A. Yeah, I don't want to go as
	themselves, I really want to get into the		far as saying it's the ultimate point of
	actual studies and your criticisms of them.		all these studies, but what I state here is
	So let's kind of move to that.		I think a reasonable interpretation of what
23	First of all, I need to ask		they were doing is that their goal was to
	you a couple of preliminary questions and		estimate the association between genital
	Page 203		Page 205
1	hopefully that will frame what we're	1	talc use and ovarian cancer.
	noperary that will frame what we re		tuic use und ovurium cumeer.
1 2	talking about here. First of all, in your		O. Okay. And that's a worthy
	talking about here. First of all, in your litigation report, you discuss several	2	Q. Okay. And that's a worthy
3	litigation report, you discuss several	2 3	goal, right? That's an important public
3 4	litigation report, you discuss several articles coming out of the Sister Study,	2 3 4	goal, right? That's an important public health issue, right?
3 4 5	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023),	2 3 4 5	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form.
3 4 5	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right?	2 3 4 5 6	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well
3 4 5 6 7	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes.	2 3 4 5 6 7	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI:
3 4 5 6 7 8	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import	2 3 4 5 6 7 8	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well
3 4 5 6 7 8 9	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of	2 3 4 5 6 7 8	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true?
3 4 5 6 7 8 9 10	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or	2 3 4 5 6 7 8 9	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you
3 4 5 6 7 8 9 10 11	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of	2 3 4 5 6 7 8 9 10	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you
3 4 5 6 7 8 9 10 11 12	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's	2 3 4 5 6 7 8 9 10 11 12	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there
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3 4 5 6 7 8 9 10 11 12 13 14	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true?	2 3 4 5 6 7 8 9 10 11 12 13 14	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there
3 4 5 6 7 8 9 10 11 12 13 14 15	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true? A. Yeah. I don't know that all	2 3 4 5 6 7 8 9 10 11 12 13 14	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there an effect of genital talc use and ovarian cancer. So, it's, obviously, part of the
3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true? A. Yeah. I don't know that all of the papers were thinking about over a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there an effect of genital talc use and ovarian cancer. So, it's, obviously, part of the same bucket.
3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true? A. Yeah. I don't know that all of the papers were thinking about over a woman's life, but I think it's true they're	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there an effect of genital talc use and ovarian cancer. So, it's, obviously, part of the same bucket. Q. But, ultimately, the idea of science of this type is to figure out
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3 4 4 5 6 7 8 9 100 111 122 133 144 155 166 177 18 19 20	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true? A. Yeah. I don't know that all of the papers were thinking about over a woman's life, but I think it's true they're all concerned with the association of talc use and ovarian cancer. Q. Well, that's I mean, your qualification kind of brings the important	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there an effect of genital talc use and ovarian cancer. So, it's, obviously, part of the same bucket. Q. But, ultimately, the idea of science of this type is to figure out whether or not a product, if used, is capable of using a disease. That's what epidemiology does, right?
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3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true? A. Yeah. I don't know that all of the papers were thinking about over a woman's life, but I think it's true they're all concerned with the association of talc use and ovarian cancer. Q. Well, that's I mean, your qualification kind of brings the important	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there an effect of genital talc use and ovarian cancer. So, it's, obviously, part of the same bucket. Q. But, ultimately, the idea of science of this type is to figure out whether or not a product, if used, is capable of using a disease. That's what epidemiology does, right? A. Now you've jumped another
3 4 4 5 6 7 8 9 100 111 122 133 144 155 166 177 18 19 20 21 22 23	litigation report, you discuss several articles coming out of the Sister Study, Gonzalez, O'Brien (2020), O'Brien (2023), and O'Brien (2024), right? A. Yes. Q. Okay. And the general import of all of these studies, if you kind of take it to the mountaintop, is whether or not genital talc use over a woman's lifetime is associated with the risk of ovarian cancer, true? A. Yeah. I don't know that all of the papers were thinking about over a woman's life, but I think it's true they're all concerned with the association of talc use and ovarian cancer. Q. Well, that's I mean, your qualification kind of brings the important question, what we really want to know from a public health standpoint is whether or	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	goal, right? That's an important public health issue, right? MS. LEHMAN: Object to form. THE WITNESS: Well BY MR. TISI: Q. It's a worthy research goal, true? A. Right. It's a question you might want to ask from the data, but you can't decouple from asking, like, is there an effect of genital talc use and ovarian cancer. So, it's, obviously, part of the same bucket. Q. But, ultimately, the idea of science of this type is to figure out whether or not a product, if used, is capable of using a disease. That's what epidemiology does, right? A. Now you've jumped another step and brought in the word "causation,"

Page 206 Page 208 1 me rephrase the question. One of the goals 1 down. I really can't. 2 of epidemiology is to determine whether or 2 THE WITNESS: I apologize. 3 not the use of a substance is capable of --3 BY MR. TISI: 4 is associated with a disease, right? 4 Q. Would you agree that in 5 studying the question of whether there's an 5 Right? 6 association between talc and ovarian 6 But now you've reversed -- so 7 here, in the statement you've highlighted, 7 cancer, the important question is whether 8 we're talking about estimation. 8 or not the person actually took or was I'm not talking about that. 9 exposed to genital talc? 10 Honestly, you need to answer my question --10 I don't think it's an A. I am --11 important -- it's not really a question of 11 12 this study. 12 O. -- whether? 13 A. I am answering your question. 13 O. Okay. Do you think it's 14 Q. No, I'm asking the question. 14 important to have reliable -- if the 15 What are the goals of the epidemiology, I'm 15 question is whether or not genital talc is 16 not talking about this case, one of the 16 associated with ovarian cancer, do you 17 goals of epidemiology is to decide whether 17 think that having questions that actually 18 or not a particular product or drug or 18 ask that question is an important thing to 19 exposure is associated with a disease, 19 have? 20 true? 20 A. I think that when you're 21 21 designing a study, you would try to ask A. It's one of many possible 22 epidemiology questions. 22 questions that ascertain what you're Okay. And would you also 23 interested in and, but it's just -- and you 24 agree that an important question for this 24 want to try and collect that data in an Page 207 Page 209 1 issue, for this case, talc and ovarian 1 unbiased way that avoids sort of, say, kind 2 cancer, is whether the women in the study 2 of contamination of the data. 3 were actually and in fact ever in their 3 Well, in the real world, 4 lifetime exposed to genital talc? 4 okay, what you really want to do in this 5 MS. LEHMAN: Object to form. 5 particular study, this particular research 6 THE WITNESS: I don't think I 6 question is whether or not women actually 7 recall anywhere in the paper that 7 were exposed to genital talc. You want to 8 they say that's the goal of this 8 know that answer, right? 9 9 Again, that's not a question study. 10 BY MR. TISI: 10 of the study. The study's question is 11 about estimating the association between 11 Q. I didn't ask that question, 12 Doctor. Honestly, you need to listen to my 12 genital talc use and ovarian cancer. 13 question. My question is, an important 13 Right. And center to that is 14 question is whether or not women in the 14 whether or not women actually used genital 15 Sister Study were actually and in fact in 15 talc? 16 their lifetime been exposed to genital 16 Whether or not women used 17 talc? 17 genital talc is the exposure variable that 18 you're looking at. 18 A. But you emphasized the 19 important question, if it's --19 Now, if you go to page 5 of 20 O. Just answer the exact --20 your report, you talk about what the 21 initial enrollment questionnaire asked, 21 A. If it's not people in the 22 true? 22 field --23 23 THE STENOGRAPHER: Wait a A. Correct. 24 minute. I can't take you both 24 And the initial questionnaire

Page 210 Page 212 1 did not ask whether a study participant had 1 it. true? 2 ever used genital talc, did it? 2 A. I don't know which years they 3 A. No, it didn't explicitly ask 3 were more likely to use it. 4 that, no. 4 Well, the Sister Study 5 investigators actually looked at that 5 O. Okay. In fact, the 6 investigators asked whether the women 6 question, didn't they? 7 7 actually used genital talc at two very You would have to remind me 8 specific times, from 10 to 13 years old or 8 where they do that. 9 a year before enrollment, true? 9 Okay. Well, let's talk about 10 MS. LEHMAN: Object to form. 10 that in a moment. You know that the NIH 11 THE WITNESS: The 11 studies and Sister Study investigators 12 questionnaire did ask about talcum 12 found that the 20- to 50-year gap in 13 powder use between the ages of 10 13 exposure created by the original enrollment 14 to 13 and in the past 12 months. 14 questionnaire created a problem when trying 15 BY MR. TISI: 15 to answer the actual research question and Now, if you go back to the 16 that is whether or not genital talc use 16 17 Gonzalez paper, you know that the average 17 during a woman's lifetime was associated 18 range of enrollee was between 35 and 75 18 with ovarian cancer. And that is because 19 years old, correct? 19 the original questionnaire did not capture 20 A. Do you want me to go back to 20 lifetime use, true? 21 that paper? I would have to check those 21 A. I'm sorry, where are you 22 numbers. 22 seeing this? 23 Q. Sure. Let's do it. Gonzalez 23 Q. Well, let's go to -- let's go 24 was Exhibit No. 18. If you look at the 24 to the study, Exhibit No. 16. Page 211 Page 213 1 methods section on page 2, see, enrollees 1 Okay, yes. A. 2 were aged between 75 -- 35 to 74 years old, 2 If you go to page 4, it says, Q. 3 go to page 4, please. Okay. Slide down, 3 correct? 4 4 please. "Because the enrollment A. Yes, that's what it states. 5 Q. Okay. So using the Sister 5 questionnaire did not collect information 6 Study enrollees, using the youngest of the 6 on use between age 14 and one year prior to 7 Sister Study enrollees, a 35-year-old 7 enrollment, it was possible for a 8 woman, the enrollment questionnaire did not 8 participant to report never use on the 9 ask her about genital talc use between the 9 enrollment questionnaire and ever use on 10 ages of 13 and 30 years old, a period of 20 10 the follow-up questionnaire without 11 years, correct? 11 contradicting themselves;" is that true? 12 It depends when -- I'm sorry, 12 Yes, I don't disagree with A. A. 13 because of the previous 12 months, that's 13 that statement. 14 correct. 14 Okay. Now let's go back to 15 Right. Okay. Using the 15 O'Brien (2024), Exhibit No. 8. On page 14. Q. 16 oldest Sister Study enrollee, a 74-year-old 16 Top left corner, they say "The intimate 17 woman, the enrollment questionnaire did not 17 care product questions were initially 18 ask her about her use between the age of 14 18 limited to two specific time periods; age 19 and 73, a period of 49 years, true? 19 10 to 13 and the last year, and did not 20 A. Yes. 20 capture lifetime exposure or use during the 21 O. Okay. Given the Sister Study 21 most likely exposure period of ages 20 to 22 enrollment age range, the original Sister 22 39 years."

23

24

Do you see that?

Yes, I see that they say

23 Studies did not ask about talc use during

24 the years that they were more likely to use

Page 214	Page 216
Page 214	1 Q. Yes.
2 Q. Okay. Well, they actually	2 A. I just want to make sure I'm
3 have evidence to support that, right?	3 completely following the path.
4 A. They cite their 2023 paper, I	4 Q. Go back to Exhibit No. 8 on
5 have no reason to dispute that, no.	5 page 14.
6 Q. Let's go back and look at it,	6 A. Page 14.
7 okay?	7 Q. Okay. They say the initial
8 A. Okay.	8 questionnaire, "the initial intimate care
9 Q. Let's go back to the 2023	9 product questions were related to two
10 study.	10 specific time periods; ages 10 to 13 years
11 A. Remind which	11 and the last year, and did not capture
12 Q. First of all, just for the	12 lifetime exposure or use during the most
13 record, if you look at Exhibit No. 17,	13 likely exposure periods of 20 to 39 years."
14 that's the supplemental questionnaire that	Do you see that?
15 was done that you have problems with,	15 A. Yes.
16 right?	16 Q. And they cite their own study
17 A. This is the this is a	17 coming out of the Sister Study to
18 follow-up one?	18 demonstrate that, correct?
19 Q. Uh-huh. And the talc	19 A. They do cite their own study
20 questions are not until number 138 there.	20 for that.
A. Did you say number 38 in the	21 Q. And let's go to Exhibit
22 questions?	22 No. 16, which is their 2023 study.
23 Q. It's 138 on page	23 A. I'm there.
24 actually	Q. Okay. And if we go to the
Page 215	Page 217
1 A. I don't see the page numbers.	1 first page, it says, this actually they
2 Q. Yeah, I'm just going to ask	2 were using the follow-up questionnaire from
3 you, this is the questionnaire that you	3 2017 to 2019, right? It is up on the
4 reviewed, correct? I don't want to waste	4 screen.
5 time on it.	5 A. Okay. That is what it
6 A. Without checking every page,	6 states.
7 I believe it looks like it's the same	7 Q. Okay. So they make a
8 questionnaire, yes.	8 distinction between the one questionnaire
9	9 which asks for a very specific time frame,
10 (Sister Study Questionnaire	10 a three-year period, and the follow-up
11 marked Kornak Exhibit 17 for	11 questionnaire which talks about lifetime
12 identification.)	12 use, correct?
13	13 A. They do make that distinction
14 BY MR. TISI: 15 Q. Okay. Now, going back to the	14 yes. 15 Q. And this, again, the use of
15 Q. Okay. Now, going back to the 16 question of the appropriateness of the	16 this questionnaire passed peer review as
17 original questionnaire to determine the	17 well, correct?
18 ages where women were more likely to use	18 A. I don't know whether the
19 talc and that original questionnaire	19 questionnaire was reviewed or not.
20 missing those dates, they referred, the	20 Q. Okay. This is published in
21 authors of O'Brien (2024) refer to their	21 the Journal of
22 2023 study, correct?	22 A. But I can say that I think
23 A. So can you remind me where	23 it's, like, a bad design that they would
24 that	24 have different questionnaires at enrollment

Page 218 Page 220 1 and haven't thought about what they really 1 used it their whole lifetime, then what 2 want to ask and then recall bias is 2 they said between 10 and 13 agrees exactly 3 introduced and they start introducing all 3 with what they used in their whole 4 these other aspects and get all these 4 lifetime. There's no disagreement. This 5 problems are, but --5 6,438 that said they used it in the teens So this is another journal 6 could be the same, could be 6,438 of the Q. 7 that got it wrong, the Journal of 7 8,002 that used it in their twenties. We 8 Epidemiology, which said, you know, 8 have no idea --9 approved a peer-reviewed literature that 9 Q. The enrollment 10 compares the enrollment questionnaire and a 10 questionnaire --11 subsequent questionnaire in a cohort study? 11 There's no cross tables here A. I don't believe I said the 12 12 for us to know where they agree in 13 journal got anything wrong. I'm just 13 different periods or disagree. And I think 14 saying that I don't think they were good 14 O'Brien makes the statement that there is 15 designs. 15 good agreement between -- in their 2023 Okay. All right. Now, if 16 paper, that there's good agreement between 16 Q. 17 you go to O'Brien (2023), page 14, there's 17 the first survey and the later survey --18 a table, correct? 18 Honestly, I'm not even 19 A. 19 understanding your answer. Yes. 20 Q. And on page -- have you seen, 20 A. I can slow it down if --21 had you looked at this table before? 21 No, no, you don't need to O. Yeah, I've seen it. I didn't 22 slow it down. My question is, did the 23 look at it -- I don't believe I looked at 23 original questionnaire ask about use in 24 twenties and thirties? 24 it in great detail. Page 219 Page 221 1 Well, it talks about the vast 1 A. I think I already answered Q. 2 majority of the use were in the twenties 2 that, that, no, it doesn't ask specifically 3 and thirties, correct? 3 about use in twenties and thirties, but A. I don't know that the table 4 that --5 talks about anything. It provides numbers. 5 If a woman is 35 years old So it says self-reported, it 6 and only used talc in her twenties, let's 7 says "all." Okay. Use in the twenties, 7 say from age 21 to age 34, could she answer 8 8,002 people, use in the thirties, 6,416 8 the questions on the original questionnaire 9 people. Do you see it? 9 no and no and still have been a talc user? 10 A. 10 MS. LEHMAN: Object to form. Yes. Now, if the earliest age of a 11 THE WITNESS: She could answer 12 woman enrolling in this study was 35 years 12 no for the period 10 to 13 and for 13 old to 75 years old, the original study 13 the past 12 months and still have 14 design, the enrollment questionnaire would 14 been a talc user in her twenties, 15 have missed this time frame by necessity, 15 for example, yes. 16 correct? 16 BY MR. TISI: 17 17 A. No. Q. Okay. Now, the data on the 18 supplemental questionnaire which was asked 18 O. Tell me a circumstance under 19 which the -- a 35-year-old woman who 19 was more comprehensive in terms of 20 enrolled -- who answered your enrollment 20 capturing lifetime use, true? Whether you 21 questionnaire correctly would be answering 21 think it was affected by recall bias or

22 not, it asks the question that was not

Well, I think it depends on

23 asked in the original survey, true?

24

22 about talc use in the early twenties?

Well, if they said that, yes,

24 I used between ages 10 to 13 and then they

1	Page 222	1	Page 224
	what you exactly mean there, because, yes,	1	they used it in their teens. So
2	it asks about the specific intervals and I	2	there is no evidence to say that
3	already agreed with you it asks about these	3	there's suddenly these big
		4	differences in who used it in
	, E	5	their twenties versus who used it
6	options into how to answer about each	6	in their teens and I think
l _	interval. They're kind of forced into a	7	O'Brien says that.
8	yes-or-no situation or to not answer. And	8	BY MR. TISI:
	as such, the sort of the problems that are	9	Q. Well, O'Brien actually
	incorporated far outweigh any potential		move to strike your answer, which is,
	extra advantage of having the specific	11	
l	intervals.	12	A. I did respond, again, to your
13	Q. Doctor, I'm going to move to		question, again. Again
l	strike. That's not my question.	14	Q. But O'Brien
15	My question was, does the	15	A. The interval
	questionnaire number two ask about time	16	
17	frames beyond that of questionnaire number	17	(Simultaneous crosstalk.)
18	one?	18	
19	A. I've already answered your	19	BY MR. TISI:
20	question that there are specific intervals	20	Q. Doctor, I move to strike.
21	in here	21	Let's move on.
22	Q. So	22	The statement that O'Brien
23	MS. LEHMAN: Hold on. Hold	23	makes, the intimate care product questions
24	on. Let him finish.	24	were related to two time frames, the
	Page 223		Page 225
1	THE WITNESS: for use in	1	original enroll questionnaire, ages 10 to
2	the twenties and thirties that were	2	13 and the last year, and did not capture
3	not explicitly asked in the first	3	lifetime exposure or use during the most
4	questionnaire. But at the same	4	likely exposure period of ages 20 to 30
5	time, the way these questions are	5	years. Are they right or are they wrong?
6	asked gives women less options and	6	MS. LEHMAN: Object to form.
7	it led to differential recall	7	THE WITNESS: To be honest, I
8	bias sorry, differential bias as	8	don't know for sure that they're
9	can be seen by the proportion of	9	right or wrong, but if those, for
10	cases that didn't answer compared	10	example, here those 6,438 that said
11	to the proportion of controls that	11	they used it in their teens,
12	didn't answer. And that's really	12	although this is problematic
13	going to outweigh any of, like,	13	because it is from the second
14	what little advantage you might	14	the follow-up survey, but if you
15	gain by looking at extra intervals.	15	accepted that, then those 6,438
16	And I should say, even if	16	could be the same 6,416 that used
17	you look at these numbers here,	17	in their thirties, they could be
18	we're talking about pretty	18	the same within those that used it
19	consistent numbers across each	19	in their twenties. So it would be
20	period. And so it could just be	20	actually just asking if that's the
21	that this is essentially mostly	21	case that and O'Brien seems to
22	the same group of people that's	22	imply that it is in 2023, then that
23	saying they used in each period,	23	would be the same set all the way
24	which means they would have said	24	through.
4	which means they would have said		unougn.

	D 227		D 220
1	Page 226 So if you're asking about	1 wit	Page 228 thin collection of supplemental data
2	one period, then the implication		ich was trying to address the question of
3	is that they're very likely to		ether or not the women had lifetime use,
4	have used through the whole	4 cor	•
5	period. So, yeah, the answer	5	A. That's kind of my impression
6	is		the extension of the questions, that
7	BY MR. TISI:		ey wanted to look at that.
8	Q. You're guessing, aren't you?	8	Q. Right.
9	I mean, you are guessing, aren't you?	9	A. And my impression was that
10	MS. LEHMAN: Object to form.		oir conclusions were that the perspective
11	THE WITNESS: I would say that		seline data were quite reliably
12	it's not my responsibility when		oresentative of the lifetime use.
13	I look at a paper and I'm reviewing	13	Q. Right. And, of course,
14	it, I want them to demonstrate to		king in a supplemental questionnaire
15	me that there's a problem. They		ould raise two questions, first, would be
16	should have given all the		at do you do with this contradictory data
17	information to be able to do that,		potentially contradictory data and what
18	but I'm not		you do, for example, if a woman dies and
	BY MR. TISI:		n't fill out the supplemental
20	Q. Okay.		estionnaire, correct?
21	A convinced because	21	A. I think those are important
22	O'Brien says so.	22 que	estions to consider, yes.
23	Q. So O'Brien (2023), if you go	23	Q. Okay. And the authors in the
24	to page 6, at the very top, it says "As	24 O'I	Brien (2024) addressed this data
	Page 227		Page 229
1	with douching, genital talc use was most	1 cor	ntradiction and missing data with what
2	common during ages 20 to 29," and then it	2 the	authors called a quantitative bias
3	goes on to say "Average age at first use		
-	goes on to say Tiverage age at first use	3 ana	alysis, which although you disagree with
	was 21 years old, and while most women only		alysis, which although you disagree with are described in the paper, true?
4	was 21 years old, and while most women only		· · · · · · · · · · · · · · · · · · ·
4 5	was 21 years old, and while most women only	4 it, a 5 6 an	are described in the paper, true? A. I disagree that it's really analysis. I think it's just an
4 5	was 21 years old, and while most women only used prior to menopause, a 32 percent use	4 it, a 5 6 an	are described in the paper, true? A. I disagree that it's really
4 5 6	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that.	4 it, a 5 6 an 7 ima 8	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe
4 5 6 7 8 9	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're	4 it, a 5 6 an 7 ima 8 9 the	are described in the paper, true? A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe ir what-if game in the methods section
4 5 6 7 8 9 10	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're doing here is they're saying that when they	4 it, a 5 6 an 7 ima 8 9 the 10 of	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe it what-if game in the methods section the paper, true?
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4 5 6 7 8 9 10	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're doing here is they're saying that when they actually look at the use between the first and second questionnaire, the first	4 it, a 5 6 an 7 ima 8 9 the 10 of t 11	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe ir what-if game in the methods section the paper, true? A. Yes. Q. Okay. And the methods that
4 5 6 7 8 9 10 11 12 13	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're doing here is they're saying that when they actually look at the use between the first and second questionnaire, the first questionnaire didn't capture large periods	4 it, a 5 6 an 7 ima 8 9 the 10 of a 11 12 13 the	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe it what-if game in the methods section the paper, true? A. Yes. Q. Okay. And the methods that by use for analyzing the data from the
4 5 6 7 8 9 10 11 12 13 14	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're doing here is they're saying that when they actually look at the use between the first and second questionnaire, the first questionnaire didn't capture large periods of time, true?	4 it, a 5 6 an 7 ima 8 9 the 10 of a 11 12 13 the 14 enr	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe it what-if game in the methods section the paper, true? A. Yes. Q. Okay. And the methods that by use for analyzing the data from the rollment and supplemental questionnaire,
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4 5 6 7 8 9 10 11 12 13 14 15 16 17	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're doing here is they're saying that when they actually look at the use between the first and second questionnaire, the first questionnaire didn't capture large periods of time, true? A. Again, I'm sort of going back and reviewing myself, but I agree with you that they didn't explicitly ask about those	4 it, a 5 6 an 7 ima 8 9 the 10 of a 11 12 13 the 14 enr 15 the 16 mis 17 pas	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe in what-if game in the methods section the paper, true? A. Yes. Q. Okay. And the methods that by use for analyzing the data from the rollment and supplemental questionnaire, a contradictory data question, and the ssing data imputation are disclosed and ssed peer review, true?
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	was 21 years old, and while most women only used prior to menopause, a 32 percent use using before and after menopause." Do you see that? A. Yes, I see that. Q. Okay. And so what they're doing here is they're saying that when they actually look at the use between the first and second questionnaire, the first questionnaire didn't capture large periods of time, true? A. Again, I'm sort of going back and reviewing myself, but I agree with you that they didn't explicitly ask about those intervals, but that does not mean that it did not capture their usage across lifetime by just asking about a snapshot. I'm not saying that that's a good design. I think	4 it, a 5 6 an 7 ima 8 9 the 10 of a 11 12 13 the 14 en 15 the 16 mis 17 pas 18 19 cor 20 sta 21 do	A. I disagree that it's really analysis. I think it's just an aginary what-if game. Q. Okay. But they describe in what-if game in the methods section the paper, true? A. Yes. Q. Okay. And the methods that ey use for analyzing the data from the rollment and supplemental questionnaire, a contradictory data question, and the ssing data imputation are disclosed and ssed peer review, true? A. Well, they do say that the rection process, that the flipping of tus, they do describe that and they

1	Page 230		Page 232
1 -	A. I missed part of the	1	would not say it's all transparent
2	<u>-</u>	2	for everybody to see, because they
3		3	don't explain that.
4	Q. Sure. If you go to page 4 of		BY MR. TISI:
1	Exhibit No. 8, which is the O'Brien (2024)	5	Q. Well, but there is a section
1	article in the methods section, they	-	in the paper where they say they're a
1	describe a quantitative bias analysis.	1	corresponding author, if you have any
8	-		questions, here's my email address, email
1	contradictory data and how they deal with		me, right?
	missing data, correct?	10	MS. LEHMAN: Object to form.
11	A. On page 4, did you say?	11	Asked and answered.
12	Q. Page 4. Under quantitative	1	BY MR. TISI:
	bias analysis.	13	Q. And you didn't do that, true?
14	•	14	A. I've already explained why I
15	•	1	didn't do it, because I didn't
1	passed peer review, true?	16	Q. Okay.
17	A. No, the paper passed peer	17	A. But when you write a paper,
	review and was published. Whether they	1	it's accepted academic practice that you
	focused in on that section or not, I don't	1	describe the methods and you justify your
	know.	1	methods. You don't just say, oh, email me
21	Q. Okay. And they put their	1	afterwards in case you don't know
22	results of their methods on a chart on	22	Q. They did describe their
23	page 7, Table 2 of the article, correct,	23	methods. You just don't think they did it
1	under quantitative bias analysis?		well enough for you, right? They described
	Page 231		Page 233
1	A. Yes, they put their results	1	it, on page 4, they described the
2	there for their four different scenarios.	2	quantitative bias analysis, correct?
3	Q. For all the world to see,	3	A. Well, again
4		4	MS. LEHMAN: Object to form.
5	MS. LEHMAN: Object to form.	5	THE WITNESS: I don't think
6	THE WITNESS: Oh, well, I	6	that this is kind of any kind of
_	wouldn't I don't know okay,	7	analysis, they just chose a
7			analysis, they just enose a
8	so the word "hiding" might be a	8	proportion and flipped it.
8 9	mischaracterization. I don't want	9	proportion and flipped it. BY MR. TISI:
8 9 10	mischaracterization. I don't want to say that they are, again, I	9 10	proportion and flipped it. BY MR. TISI: Q. Okay. And they
8 9 10 11	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to	9 10 11	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not
8 9 10 11 12	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or	9 10 11 12	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis.
8 9 10 11 12 13	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly	9 10 11 12 13	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for
8 9 10 11 12 13 14	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they	9 10 11 12 13 14	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the
8 9 10 11 12 13 14 15	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent	9 10 11 12 13 14 15	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a
8 9 10 11 12 13 14 15 16	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent for correction levels. I mean,	9 10 11 12 13 14 15 16	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a statistically significant increase of
8 9 10 11 12 13 14 15 16 17	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent for correction levels. I mean, they don't talk about how they got	9 10 11 12 13 14 15 16 17	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a statistically significant increase of 82 percent of ovarian cancer with genital
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8 9 10 11 12 13 14 15 16 17 18	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent for correction levels. I mean, they don't talk about how they got to those numbers, whether they did some separate analyses, whether	9 10 11 12 13 14 15 16 17 18	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a statistically significant increase of 82 percent of ovarian cancer with genital powder use, true? A. I'm sorry, where are you?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent for correction levels. I mean, they don't talk about how they got to those numbers, whether they did some separate analyses, whether they followed up with patients to try to ascertain what those	9 10 11 12 13 14 15 16 17 18 19 20 21	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a statistically significant increase of 82 percent of ovarian cancer with genital powder use, true? A. I'm sorry, where are you? Q. Four, at the bottom, ever use, ovarian cancer.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent for correction levels. I mean, they don't talk about how they got to those numbers, whether they did some separate analyses, whether they followed up with patients to try to ascertain what those proportions should ideally be.	9 10 11 12 13 14 15 16 17 18 19 20 21 22	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a statistically significant increase of 82 percent of ovarian cancer with genital powder use, true? A. I'm sorry, where are you? Q. Four, at the bottom, ever use, ovarian cancer. A. That's not true. That also
8 9 10 11 12 13 14 15 16 17 18 19 20 21	mischaracterization. I don't want to say that they are, again, I don't want to ascribe motives to what is missing from the paper or not missing. But they certainly don't, for example, say why they chose the 80 percent and 90 percent for correction levels. I mean, they don't talk about how they got to those numbers, whether they did some separate analyses, whether they followed up with patients to try to ascertain what those proportions should ideally be. They just pulled them out of thin	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	proportion and flipped it. BY MR. TISI: Q. Okay. And they A. It's an equation. It's not an analysis. Q. And they found correcting for missing and contradictory analysis, the hazard ratio was 1.82, meaning a statistically significant increase of 82 percent of ovarian cancer with genital powder use, true? A. I'm sorry, where are you? Q. Four, at the bottom, ever use, ovarian cancer.

	Page 234		Page 236
1		1	Q. And then they said women who
2	Q. I said that.		used it in their twenties, the risk was
3	A. I'm sorry.		1.88, statistically significant, correct?
4	Q. You didn't hear my question.	4	A. Okay. Again, with the same
5	Let me read it again. Okay.		caveats, after during their manipulation
6	And they found after they		and multiple imputation, that's correct.
	corrected for missing and contradictory	7	Q. And when they used it in
1	data that the hazard ratio was 1.82,	8	their thirties, it was 2.08, correct?
9	meaning a statistically significant	9	A. That there was their estimate
1	82 percent increased risk of ovarian cancer	10	with their correction and imputation
1	with genital powder use?		processes.
12	A. I object to the term that	12	Q. Now. You're not aware of any
13	they corrected it. I don't think this is a	13	scientist, other than those hired by
	correction. I think this is arbitrary		Johnson & Johnson, who have said that these
15	manipulation.	15	results reached by these NIH scientists and
16	Q. I'm not asking if you agree,	16	appear in this peer-reviewed paper were
17	I'm asking you that's what they reported,	17	scientifically unreliable, true?
18	right?	18	MS. LEHMAN: Object to form.
19	A. They report for their	19	Asked and answered.
20	Scenario 4, whatever you want to call it,	20	THE WITNESS: I don't know
21	that the point estimate that they get for	21	that anybody has commented on these
22	ever use hazard ratio is 1.82 with a	22	specific hazard ratios area in any
23	confidence interval ranging from 1.36 to	23	way at all.
24	2.43 and they acknowledge that that	24	
	Page 235		D 227
1	rage 255		Page 237
	contains recall bias.	1	BY MR. TISI:
2	contains recall bias. Q. Okay. Which, of course, they	2	BY MR. TISI: Q. Okay. Now, let's talk about
2 3	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right?	2	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the
2 3 4	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with	2 3 4	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the
2 3 4 5	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it	2 3 4 5	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility
2 3 4 5 6	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay.	2 3 4 5 6	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a
2 3 4 5 6 7	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately.	2 3 4 5 6 7	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might
2 3 4 5 6 7 8	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that	2 3 4 5 6 7 8	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to
2 3 4 5 6 7 8 9	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for	2 3 4 5 6 7 8 9	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer.
2 3 4 5 6 7 8 9 10	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who	2 3 4 5 6 7 8 9	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to
2 3 4 5 6 7 8 9 10 11	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a	2 3 4 5 6 7 8 9 10 11	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian
2 3 4 5 6 7 8 9 10 11 12	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a statistically significant increased risk of	2 3 4 5 6 7 8 9 10 11 12	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian cancer in the Sister Study, true?
2 3 4 5 6 7 8 9 10 11 12 13	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a statistically significant increased risk of greater than 2, meaning over 100 percent	2 3 4 5 6 7 8 9 10 11 12 13	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian cancer in the Sister Study, true? MS. LEHMAN: Object to form.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a statistically significant increased risk of greater than 2, meaning over 100 percent increased risk, true? A. I'm sorry, can you which one, what are we looking at here? Q. Look at table 3 on page on page 10, the long-term use greater than two decades for ovarian cancer, they have a risk of 2.01 with a confidence interval of 1.39 to 2.91, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian cancer in the Sister Study, true? MS. LEHMAN: Object to form. THE WITNESS: I think there's quite a bit to unpack in your BY MR. TISI: Q. Then I'll rephrase the question. They were concerned about the potential that these hazard ratios might be affected by recall bias, true? A. Well, I think they've
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Page 238 Page 240 1 into account, didn't they? 1 because we all agree that -- before I get 2 They did some manipulations 2 there, the potential for recall bias is 3 where they looked at a few scenarios where 3 just a potential, it's a theoretic concern, 4 they did more flipping of data and they 4 correct? 5 actually get sort of inconsistent. 5 A. No, recall bias is a real Q. Well, didn't the authors --6 kind of bias. 7 7 A. But they're already starting Q. Well, how much -- well, it's 8 from this problematic area where they've 8 a real kind of bias, but whether it 9 corrected their data in this arbitrary, 9 actually exists in a particular study is 10 manipulative fashion that leads you towards 10 always a question of you have to 11 more recall bias. They add even more in 11 acknowledge, but it's a theoretic concern, 12 through the missing imputation approach --12 correct? MS. LEHMAN: Object to form. 13 Q. Got it --13 14 A. They do a little bit of that 14 THE WITNESS: It's not 15 and they just don't do enough to not quite 15 theoretic. You acknowledge it, 16 get them to be uncertain again. But it's 16 because it can be there. 17 really clear that it is uncertain. 17 BY MR. TISI: 18 Q. It can be there, there's no Doctor, I mean, they have --18 19 this isn't the only time they looked at the 19 proof that it's there, it can be there, 20 potential for recall bias, they did it in 20 right? 21 the 2023 article, correct? 21 A. But when you are trying to 22 A. I think they discussed recall 22 demonstrate -- to determine that there is 23 bias in their 2023 article --23 an association, you are not -- the onus is 24 not on proving that it's there, the onus is 24 Q. In fact, they --Page 239 Page 241 1 1 on you to prove it's not there and it's 2 2 reliable ---(Simultaneous crosstalk.) 3 3 Perfect. Let's talk about 4 4 that, because the authors do that, don't THE STENOGRAPHER: I'm not 5 getting this, because you're 5 they? 6 talking over each over and Zoom 6 They proved they have recall 7 7 bias? No, they don't do that. just cuts it out. I don't even 8 hear it. 8 Q. Go to the douching study. It 9 finds that recall of general -- page 6. 9 BY MR. TISI: Sorry, you're going to have 10 I'm sorry. Repeat yourself, 10 Q. 11 Dr. Kornak. 11 to take me to -- what's the --12 A. I don't remember exactly what 12 Let's go to Exhibit No. 16 --Q. 13 I said. 13 A. Yup. 14 In fact, let me -- in fact, 14 Q. -- on page 6. Well, first of 15 they concluded that there wasn't much 15 all, let's start at the beginning. It says 16 evidence for recall bias, even using the 16 the conclusion of this study was that 17 supplemental questionnaire, true? 17 classification of -- and this is using both 18 A. Where do you see that 18 the recall, the follow-up question, and the 19 conclusion? 19 initial questionnaire. Do you see that in 20 O. Well, let's look at it. 20 the methods section, correct? 21 21 A. Yeah, but let's look at it. A. Okay. So it's --22 I'm happy to look at it. 22 O. In the methods section --Q. Let's look at page 13 of the 23 Where do you see want me to 24 douching study, back in 2023, exhibit --24 look first?

Page 242 1 Q. In the methods section, they 2 actually acknowledge both the initial 3 questionnaire and the supplemental 4 questionnaire, correct? 5 A. Yes. 6 Q. Okay. And in their Page 242 1 (2024) study in order to make go from a 2 risk to a no risk? 3 A. Well, okay. So, first of 4 all well, from a risk to a no from 5 what risk to what no risk, that's 6 Q. Actually, let me withdraw	:44
2 actually acknowledge both the initial 3 questionnaire and the supplemental 4 questionnaire, correct? 5 A. Yes. 2 risk to a no risk? 3 A. Well, okay. So, first of 4 all well, from a risk to a no from 5 what risk to what no risk, that's	
3 questionnaire and the supplemental 4 questionnaire, correct? 5 A. Yes. 3 A. Well, okay. So, first of 4 all well, from a risk to a no from 5 what risk to what no risk, that's	
4 questionnaire, correct? 4 all well, from a risk to a no from 5 A. Yes. 5 what risk to what no risk, that's	
5 A. Yes. 5 what risk to what no risk, that's	
6 Q. Okay. And in their 6 Q. Actuarry, let the withdraw	
7 conclusion, they say "Classification of 7 that question, but this isn't the only time	
8 ever use in feminine hygiene products may 8 they looked at only prospective data in	
9 be recalled with good consistency." 9 order to see whether or not there's a	
Do you see that? 10 potential recall bias, true?	
11 A. Okay. 11 A. I don't know that, but there	
Q. All right. And they actually 12 was a lot of earlier questions, I don't	
13 go back and they actually analyze that 13 know if you wanted them answered or don't	
14 question. If you go to page 6, they say 14 want them answered. You bounced around a	
15 "87 percent," on the fourth paragraph down, 15 little bit.	
16 "recall of genital talc use was slightly 16 Q. Let me withdraw the question.	
17 less consistent than douching with 17 You would agree with me that the results of	
18 87 percent of the women providing the same 18 the 23 study when they used both	
19 response at follow-up as they did 19 questionnaires, they found that almost	
20 enrollment." 20 90 percent of the women answered the	
21 A. You say fourth paragraph 21 question consistently, whether or not it	
22 down? 22 was prospective or retrospective, true?	
Q. Yes. Starting with "recall," 23 A. I would have to remind myself	
24 it's on, recall of genital talc use was 24 with that, so what question specifically	
Page 243 Page 2	45
1 slightly less consistent when comparing it 1 are they being consistent with or less	
2 to douching, okay, with 87 percent of the 2 consistent with? Because I'm not sure what	
3 women providing the same response in 3 question you could actually use from the	
4 follow-up as they did in enrollment, 4 first questionnaire and the second	
5 correct? 5 questionnaire that would allow you to	
6 A. Yes. 6 answer this question precisely.	
7 Q. Okay. And so what they're 7 Q. Well, doctor, you reviewed	
8 saying is at least when they compare 8 this	
9 87 percent of the people provided the 9 A. Let me finish, the role of	
10 exact provided totally consistent 10 the design that they have in the first	
11 answers, correct, recall bias didn't really 11 questionnaire versus the second, there are	
12 effect in almost 90 percent of the women, 12 no intervals that match. So how can you	
13 true? 13 even assess this accurately? I don't get	
14 MS. LEHMAN: Object to form. 14 it.	
THE WITNESS: Well, if 15 Q. Well, you read the paper and	
16 13 percent of the women were wrong 16 it was peer reviewed. I mean, I don't know	
and then got different answers that 17 what else to do, Doctor, other than redoing	
can have a substantial effect on 18 the entire study for you. You read the	
19 recall bias. 19 paper. They're reporting that there's a	
20 BY MR. TISI: 20 consistent	
21 Q. Right, and what percentage, 21 A. My focus was I looked at	
22 what is the tipping point that you have 22 this paper, I'm not claiming I read this	
23 that of the amount of recall bias that 24 would have to be introduced to the O'Brien 23 paper from first word to last word. 24 Q. Okay. Well, let's look	

	D 040
Page 24	Page 248 1 sometimes a little slow back and forth.
1 A. But what I am stating is,	2 Q. I'm not critical. I'm not
2 what I did look at most carefully was3 O'Brien (2024). But I am sort of like I	3 critical. It says "We found that women
, ,	
4 can't help but ask the scientific question	4 could recall whether they ever used
5 of what question were you determining	5 feminine hygiene products with good
6 whether it's less was consistent or not?	6 consistency," and they were comparing both
7 Because in the first, you've already told	7 questionnaires, right?
8 me that, again, that in the first	8 A. Yeah, I agree that's what
9 questionnaire, they had 10 to 13 and the	9 they said.
10 last 12 months. Well, where in the second	10 Q. All right. But that's not
11 questionnaire, can you find the matching	11 only the time they ever looked at that
12 questions to match the first?	12 question, right, they looked at it in
Also, in the second	13 O'Brien (2024), right?
14 questionnaire, you don't even get the same	14 A. In O'Brien okay, I might
15 options for each question. So I don't see	15 want you to point to where, I'm not totally
16 how you check that. I don't see	16 sure which piece of O'Brien (2024) you're
Q. Well, you said that they did.	17 referring to. O'Brien (2024) is that there
18 You said they did	18 is differential recall. I mean, that's
MS. LEHMAN: Object to form.	19 Q. Well, except they looked at
THE WITNESS: I said they said	20 the subgroup of people who only asked the
21 they did. I didn't say they did.	21 question prospectively, true, which would
22 BY MR. TISI:	22 have been fully prospective data?
Q. All right. Doctor, you're	23 A. Right, yeah, so that is the
24 the expert here, I'm not. So let me ask	24 Table A2. That's the one with the
Page 24	7 Page 249
Tage 24	,
1 you this question. Let's go to page 9 of	1 result
1 you this question. Let's go to page 9 of2 the douching study.	1 result 2 Q. Well, let's see what they say
1 you this question. Let's go to page 9 of2 the douching study.3 A. So which one?	1 result 2 Q. Well, let's see what they say 3 in Table A2. Look at page 12 of the study
 you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, 	1 result 2 Q. Well, let's see what they say 3 in Table A2. Look at page 12 of the study 4 and then we'll look at Table A2.
 you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. 	1 result 2 Q. Well, let's see what they say 3 in Table A2. Look at page 12 of the study 4 and then we'll look at Table A2. 5 A. So page 12 of the paper.
 you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, 	1 result 2 Q. Well, let's see what they say 3 in Table A2. Look at page 12 of the study 4 and then we'll look at Table A2.
 you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. A. So we're still on okay. Q. And comparing both the 	 result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper. Okay. I'm there. Q. They say, on the very bottom
 you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. A. So we're still on okay. Q. And comparing both the questionnaires, it says "We found that 	 result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper. Okay. I'm there.
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Page 252 Page 250 1 sentence on the left-hand side, "ever 1 THE WITNESS: No, that's not 2 genital talc use was positively associated 2 fully my position, but sorry to 3 with ovarian cancer as a ratio of 1.82 but 3 interrupt. 4 showed no evidence of association pre- or 4 BY MR. TISI: 5 5 postmenopausal breast cancer or uterine Well, it does say the fully 6 cancer," correct? 6 prospective data you have for ovarian 7 7 cancer of 1.84, though not statistically That is what is stated there, A. 8 yes. 8 significant, increased risk in that 9 9 subgroup of people, correct? There's a Now, if you go to Table A2, 10 the last -- you want to focus on the first 10 positive association, true? 11 column. I'm going to focus on the last 11 Well, there's, you already 12 column. 12 pointed to part of it, it's not 13 A. Okay. Sorry. 13 statistically significant. It's based on a 14 Q. Go to page A2 -- it's on 14 very small effective sample size here. 15 page -- Jeff, it's on page -- let's see 15 We're talking about 29 ovarian cancer cases 16 what page it is. It's I think the last --16 in that part of the study. That's a tiny 17 the third page from the end. Go to A2, 17 sample that, like, even statistics 101 will 18 that's A1, Jeff. Okay. Now, Table 3, 18 tell you is very, very small. 19 Table A2, defined by exposure status 19 Furthermore, I think there 20 reported on fourth detailed follow-up and 20 is potential for recall bias here, because 21 use before then and incident cases 21 now this part, not in the same sense of --22 it's almost like a bias by indication as 22 occurring after the time, fully 23 prospective. Do you see that? 23 well here in that if you -- by this time 24 people were aware of the media stories, 24 A. Yeah, yeah. Page 251 Page 253 1 Q. That means in the first 1 even though they were entering into a 2 questionnaire, taking all people and on the 2 prospective study, the only way, at the 3 second questionnaire, only those people who 3 beginning, we just know whether they're 4 developed ovarian cancer after the 4 ovarian cancer cases or not, but we don't 5 questionnaire, right? 5 know if they have been discussing with 6 A. Correct. 6 their medical doctor whether or not they 7 O. Right. So it's fully 7 may be susceptible to ovarian cancer, prospective, no recall bias, right? 8 whether they're at high risk, whether they 9 may have had symptoms but were not fully Oh, no, you can't guarantee 10 diagnosed --10 there's no recall bias there. 11 Q. I'm not asking for a 11 Q. You're guessing? 12 guarantee --12 A. 13 I agree, it's prospective, 13 O. You're guessing, aren't you, 14 but you said no recall bias, right --14 you don't know --15 Fully prospective --15 My point is it's a I don't think you can 16 susceptibility to a bias that exists --16 17 guarantee a lack of recall bias. 17 As is the fully Q. 18 I'm not looking for 18 prospective --19 guarantees, Doctor. Okay? I'm looking at 19 A. I wouldn't categorize it as 20 fully -- your position is fully prospective 20 guessing. 21 21 question -- fully prospective questions 22 have indicia of reliability because they do 22 (Stenographer clarification.) 23 not introduce recall bias, correct? 23 24 MS. LEHMAN: Object to form. 24

Page 254	Page 256
1 BY MR. TISI:	1 amount of the cases, because they are
2 Q. Let's kind of back up for a	2 driving results.
3 second. You said that the number of	Q. Doctor, this isn't, honestly,
4 participants exposed was a small sample	4 you're not supposed to be an advocate,
5 size, correct, 31?	5 you're supposed to look at the data
6 A. I'm saying that the number of	6 independently, right?
7 cases, so when you're working with a study,	7 MS. LEHMAN: Object to form.
8 like, in where you're looking at cases	8 Argumentative.
9 versus non-cases, whether that it's in	9 BY MR. TISI:
10 survival analysis or whether that's in	10 Q. Right?
11 logistic regression, the effective sample	11 A. I agree, I'm talking
12 size you have is the bigger of the two	12 Q. Okay.
13 groups, the cases versus the non-cases.	13 A. All I'm doing is
14 Q. That wasn't	14 restating what
15 A. Twenty-nine cases, that's a	15 Q. Well, you're arguing with me.
16 very small number. It's reflected by the	16 A what the review was in my
17 sheer width of the confidence interval.	17 report and
18 Q. Exactly. Exactly.	18 Q. Well, you're arguing with me.
19 A. Yes.	19 In the 2023 article, they reported that
20 Q. Gotcha. Okay. We'll looking	20 there was evidence that the answer about
21 for evidence of recall bias. Okay. Right?	21 talc use in the second questionnaire was
22 You have O'Brien (2023) which says	22 consistent 90 percent of the time with
23 A. I'm sorry, you're going to	23 people who reported on the first
24 have to explain how we were looking at	24 questionnaire, right, 87 percent of the
Page 255 1 evidence of recall bias in O'Brien (2024).	Page 257
2 Q. Well, you're saying that only	
2 O. Well, you'le saying that only	2 MS. LEHMAN: I object to
1	2 MS. LEHMAN: I object to counsel's commentary.
3 the prospective data, okay, does not carry	3 counsel's commentary.
3 the prospective data, okay, does not carry 4 the potential risk, and you can't even	 3 counsel's commentary. 4 THE WITNESS: I mean, I'm just
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	D 250		P. 260
1	Page 258	1	Page 260 was the result of the study, but otherwise,
	irrelevant or not, did they report that	l .	
	there was good correlation?		I agree.
3	A. I don't know if they used the	3	Q. And if you turn to Exhibit
	word "good," but I remember from we've just		No. 8, which is the O'Brien (2024) study,
	looked at 87 percent was a number.	5	on page 13, go to page 13, please, in the
6	Q. Okay.	l .	middle paragraph, the paragraph beginning
7	A. Whether you define that as	l	with results. The last sentence says
8	good or not depends on context	8	
9	Q. Okay.	l .	since follow-up questionnaire completion
10	A. In my mind it also depends on	l	were not subject to recall bias, but had a
	number of cases. I'm going to ask, because		reduced sample size; estimates of the
	I think you're kind of talking to me in a		genital talc and ovarian cancer association
	rude way that I would really like a break	l .	were consistent with a positive
14	for five minutes at this point, so	l	association," correct?
15	Q. I'm not being rude, Doctor,	15	A. I agree that's what it says.
16	but you're really not answering my	16	Q. Okay. So whether you're
17	questions.	17	looking at the 2023 study or the 2024
18	MS. LEHMAN: Well, he really	18	study, they were reporting that there was
19	is answering your questions	19	good recall between the first and second
20	MR. TISI: Well, he's really	20	questionnaire, true?
21	not	21	A. I think what they're saying
22	MS. LEHMAN: So let's just	22	there is that the analysis so I think
23	take a break.	23	that was in your the table, yeah, that
24	MR. TISI: Take a break.	24	you were previously pointing to, so that's
	Page 259		Page 261
1	THE WITNESS: Can we take it	1	the analysis in Table A2 on the right-hand
2	ten minutes? That would be useful.		side, they say that it's not subject to
3	MR. TISI: Sure.	_	side, they say that it's not subject to
		3	recall bias. They acknowledge it was a
			recall bias. They acknowledge it was a reduced sample size. It's a much smaller
4		4	reduced sample size. It's a much smaller
5	(A recess was taken at this time.)	4 5	reduced sample size. It's a much smaller sample size and that there was their
4 5 6	(A recess was taken at this time.)	4 5 6	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point
4 5 6 7	(A recess was taken at this time.) BY MR. TISI:	4 5 6 7	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84.
4 5 6 7 8	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm	4 5 6 7 8	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further
4 5 6 7 8 9	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going	4 5 6 7 8 9	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was
4 5 6 7 8 9 10	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will	4 5 6 7 8 9 10	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of
4 5 6 7 8 9 10 11	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here.	4 5 6 7 8 9 10 11	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct?
4 5 6 7 8 9 10 11 12	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two	4 5 6 7 8 9 10 11 12	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement.
4 5 6 7 8 9 10 11 12 13	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you	4 5 6 7 8 9 10 11 12 13	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is
4 5 6 7 8 9 10 11 12 13 14	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the	4 5 6 7 8 9 10 11 12 13 14	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly?
4 5 6 7 8 9 10 11 12 13 14 15	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or	4 5 6 7 8 9 10 11 12 13 14 15	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it
4 5 6 7 8 9 10 11 12 13 14 15 16	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors	4 5 6 7 8 9 10 11 12 13 14 15 16	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up,
4 5 6 7 8 9 10 11 12 13 14 15 16 17	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification	4 5 6 7 8 9 10 11 12 13 14 15 16 17	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study,	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study, true?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced sample size; estimates of genital talc use
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study, true? A. I think there was a statement	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced sample size; estimates of genital talc use and ovarian cancer association were
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	(A recess was taken at this time.) BY MR. TISI: Q. Back on. All right. I'm going to slow down. I'm told I'm going fast, so I'm going to slow down and we will regroup here. Let me ask you these two questions and I think we can move on if you will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study, true?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	reduced sample size. It's a much smaller sample size and that there was their estimate of the hazard ratio, the point estimate was 1.84. Q. And they make the further statement on page 13 that that evidence was consistent with a positive association of fully prospective data, correct? A. They may make that statement. Do you want to highlight where it is exactly? Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced sample size; estimates of genital talc use

	Page 262		Page 264
1	A. It is true that's what they	1	Q. Okay. The second let me
		1	just ask you this question. In several
3	can be certain that there's no recall bias	3	places in your report, for example,
4		4	paragraph 18, but you use it other places
5	Q. Okay. All right. So let's	5	in 28 and 54, you said the NIH scientists
6		1	impute or assume whether a study subject
7	study, they say O'Brien (2024), they say		used genital talc for 38 percent of the
8		8	
	"Overall, our findings support the	9	cancer cases.
10	hypothesis that there is a positive between	10	Do you recall that
11	genital talc use and ovarian cancer	11	statistic?
12	incidence."	12	A. I'm sorry, I remember the
13	Do you see that?	13	general sort of statement. But I just want
14	A. I do agree that's what it	14	to go to my report. So you said
15	states, yes.	15	paragraph 18?
16	Q. Okay. And	16	Q. Yes, that's the first place
17	A. But they do qualify that	17	where it appears. Go down please a little
18	within there, there is still uncertainty as	18	bit, keep going. Are you on page 8 of your
	to how much recall bias and missing data		report?
20	could upwardly bias effect estimates, even	20	A. Yeah.
21		21	Q. "Under each of these
22			scenarios, the authors," very bottom, very
23		1	bottom, "Under each of these scenarios, the
24	question about lifetime use in the	24	authors impute, assume, or randomly select
1	Page 263	1	Page 265
	follow-up questionnaire were effectively		whether or not a participant used genital
	broader than the use information inquired about at enrollment?		talc in 38 of the sample, but 54 percent of
3		3 4	
4 5	A. Not completely. I think they were different. There was some ways in	5	Do you see that? A. Yes.
	which they, obviously, asked about the	6	Q. And you cited to Table A5 in
	additional interval, so in that sense, you		O'Brien (2024) and I cannot figure out how
	could argue they were broader. But in		you get those numbers, so if you would tell
	other ways, they didn't offer as many	1	me, I would appreciate it.
	options for answers to questions. So	10	A. Yeah, I can try to walk
	people could say don't know, for example,	1	through this.
	so in that sense, they were narrower.	12	Q. And, Jeff, it's on the last
13	They also didn't	13	
	specifically look at the age range 10 to	1	yeah.
	13, which would have made sense so that	15	A. Okay. So I certainly can't
16	they could carefully evaluate whether there	16	do this by memory, but I have it in those
17	was agreement between the first and second	17	pie charts in my report that point to the
18	time points.	18	different rows, the header.
19	Q. Well, they did do that in the	19	Q. I mean, feel free to look at
	original douching study, in the 2023		your report. I just don't understand where
	douching study, right? They found an		you get those numbers.
	87 percent correlation, true?	22	A. Yeah. I will do. I want to
122	A Thorr didn't only almost agent 10	1 22	male and I'm looking of the wight

23 make sure I'm looking at the right --

If it makes it easier,

24

24 to 13 at follow-up.

A. They didn't ask about ages 10

23

		Ι	
1	Page 266	1	Page 268
	it's you refer to the same statistic on		they chose it on the basis of the states in
	page 18 paragraph 18, 28, and 54.		which they resided, true?
3	A. If you just give me a moment,	3	A. It's a bizarre question. I
1	I'll be able to do it, I just need a	4	mean, the 38 percent is the sample that
	little I'm taking my glasses off because	5	they have that they did these manipulations
0	the writing is small. So the eligible for	6	on.
/ 0	imputation part comes from row 4.	7	Q. Okay.
8	Q. Uh-huh.	8	A. It doesn't matter what states
9	A. And that's overall 19 and 37	9	they came from.
	in the ovarian cancer cases. Do you see	10	Q. Okay. All right. So let's
	that okay? For the so eligible for		talk about the kinds of
	correction, that's rows two and five. So	12	A. I want to be clear, they
	it's three overall and five in ovarian		didn't choose 38 percent. They took the
	cancer cases.		sample.
15	And for the assumed, this	15	Q. They chose the cases that
	includes rows three and 12 added together.	1	comprised that 38 percent and they chose
17	Q. Okay. Did the authors	17	,
1	explain why they chose the 38 percent of	18	MS. LEHMAN: Object to form.
	the sample?	19	THE WITNESS: I really don't
20	A. I'm sorry, I didn't	20	see how this relates to anything.
	understand.	21	These are the
22	Q. Let me rephrase it a		BY MR. TISI:
	different way.	23	Q. Okay.
24	A. We chose a percent of the	24	A these are the controls and
	Page 267		Page 269
	sample		they had differential recall between them
2	Q. They chose they chose the		and they did different things in the
3	38 percent of the sample that was genital		controls and they did different things in
	talc use based upon the states that they		the cases and that affects the analysis.
	resided in, true? There were nine states	5	Q. Let's talk about
	that they resided in, not on the basis of	1	contradictory data correlation correction
l _	ovarian cancer status.		and missing data through multiple
8	A. I'm really getting confused		imputation. Take out go to page 7 of
	•	1	the O'Brien study, Table 2, if you don't
10			mind.
11	Q. I'm asking you, don't you	11	And table Scenario 4
1	know that the 38 the authors calculated	1	includes both corrected for contradictory
13	1		data and multiple imputation, correct?
	states they were in, not on their ovarian	14	A. Well, I would argue that it's
15		1	not exactly, as I stated before, not really
16	MS. LEHMAN: Object to form.	1	correcting for contradictory data. It's
17	THE WITNESS: Just point me	17	
18	to, what's the 38 percent?	18	Q. That's what the authors say?
	BY MR. TISI:	19	A. It is labeled as correcting
20	Q. I didn't get the number. You	20	1 1
1	calculated the number. I'm using the	21	Q. What they're trying to do is
22	•		deal with two different categories of women
23	the reason they chose that 38 percent was	23	in this study. The first is women who say

24 they were nonusers at enrollment, but who

24 not on the basis of ovarian cancer status,

	Page 270		Page 272
1	said they were users in the follow-up	1	state, we read the sentence that says that
1	questionnaire so that they were considered		the second questionnaire, the specific
	potentially contradictory, correct?	3	ages, age 10 and 13 and the last year and
4	A. Yes, I mean, kind of, it's	4	
	correct, but I'm not they don't	5	during the most likely exposure period ages
1	explicitly state what they count as	6	
1	contradictory or noncontradictory, but	7	And in the previous douching
	and they do have these categorizations of	8	-
1	contradictory data versus noncontradictory.	l	the first question but yes to the second
10	Q. Okay. And just so we		question and really not be contradictory,
	understand that category, that category is		right?
	a woman who says I am a nonuser based upon	12	A. Oh, so I do agree that it's
	the first questionnaire, which has which	l	possible to answer no to the first
	asks them about use between ages 10 and 13		question, yes to the second, and it be not
1	and a year before enrollment, right?	l	contradictory, that's correct.
16	A. Right.	16	Q. But they're considering all
17	Q. And then in a subsequent, if	l	those women, to be careful, they're
	they answered that question no in the	18	considering all of those women to be
	original questionnaire, but in a subsequent	19	contradictory and then they apply their
1	questionnaire, they say yes, that qualifies	20	analysis, which you disagree with, but
	as contradictory, correct?	21	
22	A. Here's the problem, they	l	tried to answer the question consistently
	they don't ask the same question. So in		or not. They're assuming they're all
	the follow-up questionnaire, they have,		inconsistent, correct?
			Dog 272
1	Page 271	1	Page 273 MS_LEHMAN: Object to form
	like, 10 to 20.	1 2	MS. LEHMAN: Object to form.
2	like, 10 to 20. Q. Right.	2	MS. LEHMAN: Object to form. THE WITNESS: I think that's
2 3	like, 10 to 20. Q. Right. A. They ask about teens. Now,	2 3	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an
2 3 4	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not	2 3 4	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at
2 3 4 5	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently?	2 3 4 5	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up,
2 3 4 5 6	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not	2 3 4 5 6	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a
2 3 4 5 6 7	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between	2 3 4 5 6 7	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at
2 3 4 5 6 7	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had	2 3 4 5 6	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The
2 3 4 5 6 7 8 9	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be	2 3 4 5 6 7 8	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said
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2 3 4 5 6 7 8 9 10	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions.	2 3 4 5 6 7 8 9 10 11	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a contradictory group and they also
2 3 4 5 6 7 8 9 10 11 12	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions. Q. And so and so	2 3 4 5 6 7 8 9 10 11 12	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a
2 3 4 5 6 7 8 9 10 11 12 13	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions. Q. And so and so A. They don't state what so	2 3 4 5 6 7 8 9 10 11 12 13	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a contradictory group and they also have a contradictory BY MR. TISI:
2 3 4 5 6 7 8 9 10 11 12 13 14	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions. Q. And so and so A. They don't state what so you would have to make an assumption and	2 3 4 5 6 7 8 9 10 11 12 13 14	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a contradictory group and they also have a contradictory BY MR. TISI: Q. We'll have to forgive each
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions. Q. And so and so A. They don't state what so you would have to make an assumption and they don't say what that is. Q. So what they're doing is if somebody says no to the first questionnaire but yes to the second questionnaire, they	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a contradictory group and they also have a contradictory BY MR. TISI: Q. We'll have to forgive each other, because it is confusing, but what they're doing is they're saying, look, we're going to consider all the and we're going to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions. Q. And so and so A. They don't state what so you would have to make an assumption and they don't say what that is. Q. So what they're doing is if somebody says no to the first questionnaire but yes to the second questionnaire, they are assuming those women are, quote, "contradictory," even though in point of fact they might not be?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a contradictory group and they also have a contradictory BY MR. TISI: Q. We'll have to forgive each other, because it is confusing, but what they're doing is they're saying, look, we're going to consider all the and we're going to employ our assumptions to the data because we are some of them are going to be noncontradictory in fact, but some of them

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- 1 What I'm saying is that they're not clear
- 2 on the definition of not contradictory.
- 3 Q. Okay.
- 4 There are assumed situations A.
- 5 where they clearly are not contradictory,
- 6 like, in that example of the follow-up,
- 7 they said 20 to 30 and in the first one
- 8 they said, like, that they didn't use age
- 9 10 to 13 and if they're 12 months prior was
- 10 not in their twenties, then they would be
- 11 contradictory data.
- 12 O. Right.
- 13 A. I don't know if they looked
- 14 at it in that way, so that would be not
- 15 contradictory. But when somebody says I
- 16 did use it at age 10 to 13, but then says
- 17 they or says I didn't -- the other way
- 18 around, I didn't use age 10 to 13, but I
- 19 used it between age ten to 20, is that
- 20 contradictory or not?
- 21 O. And that's why they do what
- 22 they do, right, they acknowledge --
- 23 A. They -- sorry.
- Right, but, again, I don't 24 Q.

3

4

14

- 1 is relegated to Table 2, which is the first
- 2 column, which is fully prospective, right?
 - Yes.
 - Q. Okay. And you describe that
- 5 in your paragraph 30 of your report, you
- 6 say that "O'Brien's baseline analysis has
- 7 two distinguishing features. First, it
- 8 uses only prospective information to assign
- 9 women to ever or never genital talc use,"
- 10 and "Second that the baseline analysis
- 11 omits the smaller number of women who are
- 12 missing enrollment surveys about genital
- 13 talc use entirely," right?
 - A. Correct.
- All right. But there's a 15 Q.
- 16 third distinguishing factor between the
- 17 first and second questionnaire, and the one
- 18 that the authors highlight in their report,
- 19 correct, in their study, and that is that a
- 20 woman can answer the second questionnaire
- 21 yes and the first questionnaire no, and not
- 22 really be contradictory about how had they
- 23 ever used -- whether they ever used talc,
- 24 correct?
- Page 275
- 1 want to get to that next step. The first
- 2 thing is they identify two categories of
- 3 potential problems, one where there's
- 4 potential contradiction, true?
- 5 A. Yeah.
- 6 O. Okay. And the second one is
- 7 where there's missing data, correct?
- 8 A. Yes.
- 9 All right. And that would Q.
- 10 be, for example, we talked about it before,
- 11 a woman who dies between the first and
- 12 second questionnaire and can't fill out the
- 13 second questionnaire, correct?
- 14 A. That would be one example.
- 15 All right. And the authors
- 16 here separately tried to deal with those
- 17 two potential problems, right,
- 18 contradictory and then missing data,
- 19 correct?
- 20 A. They did take some steps to
- 21 try and do that.
- Okay. Now, you say in
- 23 paragraph 29 that the only truly reliable
- 24 data is the baseline analysis which you say

- 1 A. I don't think that's -- I
- 2 recall that as a distinguishing feature.
- They're two completely 3
- 4 different sets of questions, one was
- 5 limited and one was -- tried to capture
- 6 lifetime use, right?
- 7 A. I think there were two
- 8 different sets of questions that were not
- 9 well aligned and -- but I wouldn't call
- 10 that a distinguishing feature of the
- 11 baseline analysis.
- 12 Okay. But they are O.
- 13 different, right? So the distinguishing
- 14 feature between the first and second
- 15 questionnaire is the second questionnaire
- 16 tried to get lifetime use and that's what
- 17 the authors said they were trying to get,
- 18 right?
- 19 I don't recall exactly what
- 20 the authors said, but they clearly looked
- 21 at different -- clearly had different
- 22 intervals within their follow-up survey.
- 23 It was more limited in some respects, but
- 24 it was more -- it had more intervals, but

Page 278 Page 280 1 they were different. 1 data but assumes they were all unexposed, Okay. So let's talk about 2 correct? 3 the contradictory data portion of the 3 A. So correct contradictory 4 analysis that they did, the bias analysis 4 data, assume unexposed if unexposed at 5 that they did, okay? 5 enrollment plus missing at follow-up. A. Okay. So that's the outer range of 6 7 7 contradictory data, so everybody is who Q. All right. How many cases 8 actually fell in that category, women that 8 reported nonuse at enrollment, but use 9 reported use -- they reported no use based 9 later was actually nonusers, correct? 10 upon the limited questionnaire 10 to 13 and 10 MS. LEHMAN: Object to form. 11 a year before enrollment and the subsequent THE WITNESS: Maybe I'm 11 12 questionnaire which talked about use 12 misunderstanding. 13 various time periods in their lifetime? 13 BY MR. TISI: Okay. So I would have to 14 Q. That's what it says, it says 15 refresh my memory, because I don't remember 15 "correct contradictory data on assumed 16 the exact numbers. It's probably easiest 16 unexposed -- if unexposed at enrollment." 17 to get it out. So I'm looking at Table A5, 17 That's what the column says, right and 18 the last page of the exhibit, the O'Brien 18 missing at follow-up? 19 paper, if you can put that up on the 19 A. That's what the column says, 20 screen. Unfortunately, the font is a 20 yes. 21 little small. 21 O. Okay. And the outer limit, 22 Q. Go to A5, please, Jeff. 22 assuming everybody is not exposed, everyone 23 23 did not take talc, right, where there was So and the relevant rows for 24 contradictory data, the risk was 1.17, 24 correction are rows two and row -- row 2 Page 279 Page 281 1 and row 5. 1 although not statistically significant, 2 And how many patients -- how 2 right? 3 3 many women are there? I don't know if I agree with 4 your characterization of the outer risk A. I don't know the number of 5 women off the top of my head. I would have 5 thing. 6 to sit and do some math. They give the 6 Genital talc, let's call it 7 proportions here and they say 8 percent 7 genital tale, which is what you used. 8 overall and nonusers at enrollment later 8 Genital talc, assume they're all unexposed, 9 said used with age reports -- I'm sorry, 9 if unexposed at enrollment and missing at 10 I'm looking at the wrong row, please. My 10 follow-up? 11 error. 11 Yes, so that applies just to 12 Row 2, nonuser at 12 the missing at follow-up data. They're 13 enrollment, later said used at enrollment, 13 basically saying, use the baseline value 14 that we actually do have response for, yes. 14 eligible for correction, 3 percent overall 15 versus 5 percent that were ovarian cancer 15 Q. Okay. And, similarly, 16 category three kind of goes the other 16 cases. 17 direction, right, it says assume they were 17 And then if we're looking 18 in -- so in row 5, 7 percent overall, these 18 all users? 19 are users at enrollment, never user at 19 Yes, even though they never 20 follow-up, eligible for correction, and 20 said at any time that they were users. 21 overall 7 percent, but only 2 percent that Right. So you have the two 21 22 extremes, people who say they were never 22 are cases. 23 users, even though they were missing at Q. Now, if you go back to

24 follow-up and people who were, you assume,

24 Table 2, Table 2 corrects contradictory

	D 000		P. 204
1	Page 282 that they were always users and that's the	1	Page 284 bias read potential.
	bracket, right, 1.17 to 3.34, that's what		BY MR. TISI:
3	they talked about in categories three	3	Q. And so they asked in a
	two and three, right?	4	subsequent a subsequent questionnaire
5	A. I disagree with that on a	5	whether they had ever used it, correct?
6	couple of levels. So even if you accepted	6	A. And, you know
7	the premise that these were extreme	7	Q. I'm just asking
	bracketing scenarios, which I don't, and	8	A. I don't think it covers the
	I'll explain in a second, you really have	1	complete lifespan, I think there's
	to look at the extremes of the confidence	10	Q. Okay. But it covers
	intervals which tell you about the	11	A. There's a wider lifespan I
	plausible range of values. So we're really		would agree with.
	going from .92 to 4.44 if you take that	13	Q. All right. Let's say that.
	whole thing as an extreme.	1	Just follow me here. Let me ask the
15	But there's already the		question and then if you need to explain
	contradictory data correction here that		it, we'll do that. Okay?
17	already brings in some bias in the upward	17	A. Okay.
18	direction. You can see that because	18	Q. You have a second
	Scenario 1 is lower with 1.07 and that in		questionnaire which raises the possibility
	turn brings in with its point estimate		that people who were originally classified
1	and that in turn brings in some bias of its	1	as nonusers were actually users, right?
1	own. And if you go back even further, you	$\begin{vmatrix} 21\\22\end{vmatrix}$	A. It does raise the
	go to Table A2 and that's the 1.02	1	possibility.
24	Q. But doesn't	24	Q. Okay. So how would you
27		24	
	Do 22 107		
1	Page 283 A The only one we can be sure	1	Page 285
1 2	A. The only one we can be sure		just follow me, okay, how would you as a
2	A. The only one we can be sure of, the one we can most sure of is not	2	just follow me, okay, how would you as a scientist have dealt with that question,
2 3	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and	2 3	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to
2 3 4	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2.	2 3 4	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the
2 3 4 5	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2	2 3 4 5	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually
2 3 4	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good	2 3 4 5 6	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you
2 3 4 5 6 7	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing	2 3 4 5 6 7	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people,
2 3 4 5 6 7 8	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why	2 3 4 5 6 7 8	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through
2 3 4 5 6 7 8 9	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in?	2 3 4 5 6 7 8 9	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not
2 3 4 5 6 7 8 9	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me	2 3 4 5 6 7 8 9 10	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the
2 3 4 5 6 7 8 9 10	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all	2 3 4 5 6 7 8 9 10 11	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you
2 3 4 5 6 7 8 9 10 11 12	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset,	2 3 4 5 6 7 8 9 10 11 12	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study?
2 3 4 5 6 7 8 9 10 11 12 13	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask	2 3 4 5 6 7 8 9 10 11 12 13	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the commentary. THE WITNESS: The original questionnaire asked specifically about ages 10 to 13 and the last 12	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I would have done as a scientist, I mean, obviously, I'm sitting here in a position where I can retrospectively pontificate about what I would have done. But the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the commentary. THE WITNESS: The original questionnaire asked specifically about ages 10 to 13 and the last 12 months. If they wanted to look at	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I would have done as a scientist, I mean, obviously, I'm sitting here in a position where I can retrospectively pontificate about what I would have done. But the first sort of, like, statement in response
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the commentary. THE WITNESS: The original questionnaire asked specifically about ages 10 to 13 and the last 12 months. If they wanted to look at something different, it's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I would have done as a scientist, I mean, obviously, I'm sitting here in a position where I can retrospectively pontificate about what I would have done. But the first sort of, like, statement in response to that is why you really ought to have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the commentary. THE WITNESS: The original questionnaire asked specifically about ages 10 to 13 and the last 12 months. If they wanted to look at something different, it's unfortunate they didn't do a good	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I would have done as a scientist, I mean, obviously, I'm sitting here in a position where I can retrospectively pontificate about what I would have done. But the first sort of, like, statement in response to that is why you really ought to have designed the study in the first place to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. The only one we can be sure of, the one we can most sure of is not suffering from biases and corrections and manipulations and adjustments is Table A2. Q. Well, except Table A2 A. Why ruin a perfectly good analysis by throwing Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the commentary. THE WITNESS: The original questionnaire asked specifically about ages 10 to 13 and the last 12 months. If they wanted to look at something different, it's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	just follow me, okay, how would you as a scientist have dealt with that question, because it raises the question as to whether or not whether or not the original Gonzalez study was actually really was ever use, right? And so now you have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I would have done as a scientist, I mean, obviously, I'm sitting here in a position where I can retrospectively pontificate about what I would have done. But the first sort of, like, statement in response to that is why you really ought to have

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- 1 specified analysis, plan, experimental
- 2 design. That's why you go through all of
- 3 that thinking and you say we need to make
- 4 sure we have the questions that will answer
- 5 the question you want to answer.
- 6 Q. Now, let's deal with reality.
- 7 Once you found out that the original
- 8 questionnaire doesn't ask the questions
- 9 that you thought that it answered, and you
- 10 find out through a subsequent questionnaire
- 11 that maybe a lot more people used talc than
- 12 originally reported, what would you have
- 13 done?
- 14 A. Okay. So, yeah, well, I kind
- 15 of have difficulties with that question,
- 16 again, on a few levels.
- 17 First of all, you know,
- 18 unfortunately the way science works is that
- 19 you can only answer what you can set up for
- 20 your design, your study, your data to
- 21 answer and if you mess things up in the
- 22 first place and circumstances change, there
- 23 may not be a way to get at a clean answer
- 24 that you want to get to and that's just --
- Page 287
- 1 Q. So should they have
- 2 withdrawn, should the authors in your
- 3 opinion have withdrawn Gonzalez 2016
- 4 because it created a wrong impression?
- 5 A. Sorry, what did I say? Did I
- 6 say --
- 7 Q. Do you think that the authors
- 8 should have either withdrawn the Gonzalez
- 9 study or published -- retracted it or
- 10 published a statement that said that study
- 11 may not have considered the entire lifetime
- 12 use of women and we don't -- we don't
- 13 represent that as being an entire lifetime
- 14 use of the women in the Sister Study?
- 15 A. Yeah, I don't want to -- we
- 16 can look at exactly what the wording is in
- 17 Gonzalez, but I think it very clearly
- 18 states what the questionnaire asks, that
- 19 it's asking about 10 to 13 versus last year
- 20 of use and it's a report that analyzes the
- 21 difference between exposed versus not
- 22 exposed, I mean, exposed in the paper. So
- 23 I don't think scientifically that's not
- 24 wrong.

- 1 Now, if somebody wants to
 - 2 say, and just because you say I think
 - 3 lifetime exposure is a more important
 - 4 question, it's not a reason to withdraw a
 - 5 paper.

7

- 6 Q. Okay.
 - A. I think there could have been
- 8 a better study design and that can be
- 9 argued, but it's not that the paper is
- 10 fundamentally wrong in what it's saying.
- 11 Q. But what they could do is
- 12 what they did, right, they published a
- 13 subsequent paper that published the data on
- 14 the follow-up questionnaire and discussed
- 15 the pros and cons of potential recall bias,
- 16 right?
- 17 A. They published a follow-up
- 18 paper and I think I'm very clear in my
- 19 report with what the problems are with this
- 20 follow-up paper. Again, you're trying to
- 21 solve a problem that I understand they want
- 22 to sort of be able to get at an analysis
- 23 that looks more at -- across a wider
- 24 lifespan, but if you just throw garbage
 - Page 289
- 1 into that to try to answer the question, 2 you're just going to get garbage out.
- 3 That's just the way it is.
- 4 Q. Okay. So you think the
- 5 subsequent questionnaire, to use your
- 6 phrase, was just garbage?
- 7 A. No, I think what's garbage --
- 8 I think it was not -- what's garbage is the
- 9 level of missing data, the level of
- 10 imputation, the level of this switching of
- 11 data, all of these manipulations, they're
- 12 not --
- 13 Q. Let's talk about missing
- 14 data --
- 15 A. You want good data. You
- 16 don't want to have to do all that to the
- 17 data to the level they do.
- 18 Q. So you talked about
- 19 contradictory data and let's talk about
- 20 missing data and that's where they use
- 21 multiple imputation, correct?
- 22 A. Yes.
- Q. Now, the missing data would
- 24 concern two categories, as I see it, a

Page 290 Page 292 1 woman who said they were nonusers on 1 MS. LEHMAN: Object to form. 2 enrollment or were missing a baseline, but 2 THE WITNESS: I mean, I don't 3 who for various reasons, including death, 3 recall exact words --4 didn't respond to the second questionnaire 4 BY MR. TISI: 5 so the data on lifetime use was missing; is 5 Q. Let's look at paragraph --6 I don't doubt it I 6 that right? A. 7 potentially did refer to it as guessing. 7 A. Well, they have, they have 8 the data from the baseline report --8 Because there's an element of it that is Well, there was at least one 9 guessing, yes. 10 woman --10 Q. Well, it's using statistical 11 methods to predict whether or not somebody 11 A. What's missing is whatever 12 they've recorded at follow-up. 12 would be a user or a nonuser, right? It's 13 not guessing, correct? 13 Well, at least one woman had 14 been missing in baseline as well, right? 14 A. If you have -- if you're A. I think if they were missing 15 trying to predict something and you have 16 both at baseline and at follow-up, they 16 either very slightly related or bias --17 would just impute it at random for some 17 bias incorporated information that you're 18 reason. 18 using to predict that data, that's a guess. 19 Q. Well, wouldn't it also be a O. Now, the NIH authors deal 20 with this missingness in Scenario 4 of 20 guess if somebody answered on the initial 21 Table 2 through the multiple imputation 21 questionnaire that they were a nonuser 22 method that we talked about earlier that is 22 based upon the two limited categories, the 23 four years of a 74-year-old woman that they 23 something that is recognized in the 24 statistical literature, correct? 24 were nonusers based upon the original Page 291 Page 293 1 MS. LEHMAN: Object to form. 1 questionnaire, that would be a guess, 2 THE WITNESS: Multiple 2 right? 3 imputation as a method is in the 3 MS. LEHMAN: Object to form. 4 4 THE WITNESS: I'm sorry, are statistical literature, it's a 5 5 method for imputing missing data. you saying that --6 But I think you linked it with the 6 BY MR. TISI: 7 first part of the question and I'm 7 Q. Let me give you a 8 not sure what the connection is. 8 hypothetical --9 BY MR. TISI: If you were trying to predict 10 whether somebody used it at age 74 based on 10 Well, you're not critical of Q. 11 multiple imputation methodology as a 11 a question --12 general matter, you're just critical of the 12 No, let me -- let me withdraw Q. 13 way in which the authors used it in this 13 the question and give you a hypothetical. A 74-year-old woman enters 14 case, right? 14 15 A. I'm critical of the 15 the study at baseline, I did not use it 16 appropriateness of extrapolating so much 16 between 10 and 13 and I did not use it at 17 data and with -- in coming up with and then 17 age 73 to 74, right? 18 relying on those results from the --18 A. Okay. 19 I'm sorry. You repeatedly 19 If you do not use multiple 20 say throughout your report, and I don't 20 imputation or some method to try to deal 21 know how many times, but you repeatedly 21 with the missingness question, let's say 22 said they guess and they assume genital 22 she dies, okay, aren't you guessing that 23 talc use and you use that in quotes 23 she was in fact a nonuser between age 13 24 oftentimes throughout your report, correct? 24 and 73?

	Page 294		Page 296
1	A. If you were doing an analysis	1	Q. I understand. I understand.
2	between ages 13 and 73	2	A. You're trying to make me do a
3	Q. Right. So	3	comparison between
4	A you would be	4	Q. No, no, no. I'm not. I'm
5	MS. LEHMAN: Hold on. Hold	5	really not. I'm asking a very specific
6	on. Let me him finish.	6	question. With regard to missingness,
7	THE WITNESS: But there is no	7	forget about all the other problems you
8	analysis between those ages and	8	think permeated this data, let's deal with
9	then the analysis at baseline is		missingness alone, don't you agree with me
10	very consistent across everybody.		that it would be arbitrary to assume in
11	It's asking the same question as		category in Scenario 2 that all those
12	everybody. It's not this is		women would be nonusers as arbitrary as
13	where kind of the whole problem		•
14	here is they're trying to combine		would be users?
15	information from Scenario 1 that	15	MS. LEHMAN: Object to form.
16	asks one set of questions with	16	THE WITNESS: No, because
17	information from Scenario 4 that	17	here's the problem, what's your
18	has a whole bunch of missing data	18	definition of a nonuser and a user
19	with different questions. They're	19	here?
20	trying to glue that together and	20	BY MR. TISI:
21	it's like trying to fit a square	21	Q. Lifetime use. Lifetime use.
22	peg in a round hole. It doesn't		Somebody who uses it lifetime but we have
23	work.		missing data.
24		24	A. All right. So what do you
	Page 295		Page 297
1 1	BY MR. TISI:	1	have here, what do you have to answer that
2	Q. Isn't it true that the	2	question?
3	statistical literature says that it is	3	Q. You have multiple imputation,
1	simply wrong to assume somebody is, in this	4	which is what the authors did.
1	case, for example, a nonuser, that multiple	5	A. No, no
	imputation, for example, is a much more	6	Q. So well, let me ask you
1	credible way of dealing with missing data	7	this.
	in that scenario?	8	A. You asked me a question and
9	A. I totally did not understand		you didn't let me answer.
$\perp 10^{\circ}$	that question.	10	Q. Okay. Well, go ahead, finish
	•		
11	Q. Well, would you agree with	11	the answer.
11 12	Q. Well, would you agree with me, let's it would be arbitrary, let's	12	A. Right, so you have a
11 12 13	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree	12 13	A. Right, so you have a baseline. You have relatively complete
11 12 13 14	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all	12 13 14	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say,
11 12 13 14 15	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either	12 13 14 15	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's
11 12 13 14 15 16	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in	12 13 14 15 16	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you
11 12 13 14 15 16 17	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was	12 13 14 15 16 17	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so
11 12 13 14 15 16 17 18	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just	12 13 14 15 16 17 18	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at
11 12 13 14 15 16 17 18 19	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them	12 13 14 15 16 17 18 19	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not
11 12 13 14 15 16 17 18 19 20	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them A. I mean	12 13 14 15 16 17 18 19 20	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not going to get you to the right answer,
11 12 13 14 15 16 17 18 19 20 21	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them A. I mean Q missing data?	12 13 14 15 16 17 18 19 20 21	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not going to get you to the right answer, because you do not have a completely
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11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them A. I mean Q missing data?	12 13 14 15 16 17 18 19 20 21 22 23	A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not going to get you to the right answer, because you do not have a completely

	Page 298		Page 300
1	Q. We'll talk about that	1	Do you agree with that?
2	A random. You do not have	2	A. Yes.
3	predictors outside of your outcome that are	3	Q. Okay. Now at the end of this
4	predictive of whether or not somebody is	4	sentence, at the end of the paragraph, it
5	missing. And you also have in your data	5	says "When missing data occur, it is
6	highly differential exposures, exposure	6	important not to exclude cases with missing
7	missingness in cases versus controls. That	7	information (analyses after such exclusion
8	should set all alarm bells ringing that you	8	are known as complete case analyses)."
9	can't do this. You can't get away this and	9	Do you see that?
10	have a reasonable analysis. You can't come	10	A. I see that's what it states.
11	up with reliable numbers based on that.	11	Q. Do you agree with that? You
12	Q. Let me	12	don't exclude them?
13	A. So I understand that you	13	A. I think it's important not to
	don't believe that the analysis in A2 is	14	blindly exclude them.
	answering the question you want to answer,	15	Q. Okay. It goes on to say
16	but neither is the data that you can't	16	A. I do not agree with this
1	get there with this incomplete, poorly		statement overall. I think it's missing
1	acquired data that has differential	1	that qualifier.
	missingness, all kinds of biases thrown in,	19	Q. Okay. They go on to say
	and do these contradictory manipulations	20	"Single-value imputation methods are those
1	and kind of solve the problem and it goes		that estimate what each missing value might
1	away.		have been and replace it with a single
23	Q. Let's look at Exhibit No. 21	1	value in the data set.
24	and see if you will agree with this. This	24	"Single-value imputation
	Page 299		Page 301
1	is a "JAMA Guide to Statistics and Methods,	1	methods include mean imputation, last
2	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for	2	methods include mean imputation, last observation carried forward, and random
2 3	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for Handling Missing Data by Li, Stewart, and	2 3	methods include mean imputation, last observation carried forward, and random imputation."
2 3 4	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for Handling Missing Data by Li, Stewart, and Allison."	2 3 4	methods include mean imputation, last observation carried forward, and random imputation." Do you see that?
2 3 4 5	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for Handling Missing Data by Li, Stewart, and Allison." Do you see that?	2 3 4 5	methods include mean imputation, last observation carried forward, and random imputation." Do you see that? A. Yes.
2 3 4 5 6	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for Handling Missing Data by Li, Stewart, and Allison."	2 3 4 5 6	methods include mean imputation, last observation carried forward, and random imputation." Do you see that? A. Yes. Q. Do you agree with that?
2 3 4 5 6 7	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for Handling Missing Data by Li, Stewart, and Allison." Do you see that? A. Yes, I see the page.	2 3 4 5 6 7	methods include mean imputation, last observation carried forward, and random imputation." Do you see that? A. Yes. Q. Do you agree with that? A. Yes, I mean, there's
2 3 4 5 6 7 8	is a "JAMA Guide to Statistics and Methods, Multiple Imputation, A Flexible Tool for Handling Missing Data by Li, Stewart, and Allison." Do you see that? A. Yes, I see the page. (JAMA Article marked Kornak	2 3 4 5 6 7 8	methods include mean imputation, last observation carried forward, and random imputation." Do you see that? A. Yes. Q. Do you agree with that? A. Yes, I mean, there's potentially other ways to do it as well,
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1 page. It says "What are the limitations of 2 Multiple Imputation?" First of all, have 3 you ever written a paper like this where 4 you talk about the method of multiple 5 imputation? 6 MS. LEHMAN: Objection. Asked 7 and answered. 8 THE WITNESS: Well, I would 9 argue this is not really this is 10 kind of an opinion piece and no, 11 I'm not in the practice of writing 12 opinion pieces. 12 think, like, they clean data a baseline 13 data at follow-up and they do it in a way 14 where they're taking people that said they 15 It's actually, it says it's a JAMA Guide to 16 Statistics and Methods, but we'll let it 17 stand what it is. 18 A. No, I would say that's just 19 the journal name, right? It's not the 20 title of the paper or				
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6 criticizing the paper and saying 6 that's in there. It's just too problematic		-		_ ·
		•		
That there was data manipulation,	7			2 1
8 improper imputation, and assumption 8 Q. Okay.	8	•		
9 that were beyond reasonable. 9 A. Not at missing, not at random				· · · · · · · · · · · · · · · · · · ·
10 BY MR. TISI: 10 situation, that's basically where you are,		· ·		
11 Q. Well, you go actually further 11 you're in a hole				
12 than that, Doctor, and to be clear, I mean, 12 Q. Let's read this paragraph and				•
13 just to be fair, you say, you know, they 13 see what you think about it. It says "Many				
14 don't trust the women on their original 14 statisticians chafe at making up data as is	"			· · · · · · · · · · · · · · · · · · ·
15 questionnaire and that they impute data in 15 done in MI and note that the validity of		•		5 1
16 the study based upon not missingness in the 16 MI, multiple imputation, depends on an		- · · · · · · · · · · · · · · · · · · ·		•
17 second questionnaire that they never filled 17 assumption about which factors relate to		· -		
18 out, right? 18 the probability that a data point is		- ·		-
19 A. They kind of do, yes, some 19 missing. Because of concern this				
20 kind of manipulation 20 assumption may be violated. It is tempting	20 1	· · · · · · · · · · · · · · · · · · ·		
21 Q. Okay. So you think 21 to retreat to the safe haven of complete		-	21	- · ·
MS. LEHMAN: Hold on. Hold 22 case analysis, i.e., only analyze the	22	MS. LEHMAN: Hold on. Hold	22	case analysis, i.e., only analyze the
on. Let him finish. 23 participants without missing values."	23	on. Let him finish.	23	participants without missing values."
24 THE WITNESS: And they do 24 Isn't that what you're	24	THE WITNESS: And they do	24	Isn't that what you're

Page 306 Page 308 1 saying, just look at the women who -- just 1 from the data, true? 2 look at the women who answered the Only if that information is 3 question --3 explanatory about your missingness in a way 4 That's not what I'm saying. 4 that's unbiased and reasonable. If it A. 5 Okay. "The safe haven is 5 was -- if it did it as you describe O. 6 however, illusory. Although rarely made 6 perfectly, we wouldn't need to collect all 7 explicit by the users, complete case 7 the data, we would just collect parts of 8 analysis requires a far more restrictive 8 data and just fill it all in with multiple 9 assumption: That any data point missing is 9 imputation. Clearly, it's better to have 10 missing completely at random. Other common 10 complete data. 11 strategies, mean imputation, last 11 Well, but you can't --O. 12 observation carried forward and other 12 You're always losing when you 13 single imputation approaches underestimate 13 have to start imputing, and when you have 14 standard errors by ignoring or 14 to impute a lot, you get into a lot of 15 underestimating the inherent uncertainty 15 trouble. 16 created by missing data, a problem multiple 16 I mean, look, in fairness, 17 imputation helps overcome." 17 most missing data was because women died as 18 Do you agree with that? 18 a result of ovarian cancer, correct? 19 A. I agree there are certain I mean, I don't know what 20 situations where that is true, that 20 proportion of the missing, the differential 21 multiple imputation certainly helps --21 missingness of the cases was due to people 22 Now, you criticized --22 dying. I have no doubt that some 23 A. -- but there are real 23 proportion of that at least would be 24 problems here with using it. I think where 24 because of that. It doesn't change the Page 307 Page 309 1 I think it mischaracterizes what I'm 1 fact that, and that's unfortunate, 2 suggesting is that I'm not suggesting that 2 obviously, it's terribly unfortunate, but 3 they treat the follow-up analysis as a 3 in terms of the analysis, it still leaves 4 complete case analysis, far from it, that 4 you in trouble. 5 would also be terrible. That would be like 5 So one of the big criticisms 6 Scenario 5, it would be awful. 6 you have, as I read it, for example, in 7 paragraph 44, but in your circular logic Scenario 1, however, has 8 many more missing data and even though 8 section of your report, is that the authors 9 O'Brien with that missing data effectively 9 included outcome status or cancer status in 10 treats it as if it was complete case 10 their imputation model; is that true? 11 analysis for that missing data, because 11 A. Yes. 12 they just basically impute based on those 12 Okay. And --Q. 13 proportions at random. That's equivalent 13 It says -- I'm trying to go 14 almost to treating it as if it had been a 14 to the paragraph, I mean, I agree with 15 complete case analysis on those people 15 you --16 missing at both time points. 16 For example, paragraph 44, 17 I'm not suggesting in any 17 but you have a whole section on that 18 way that you take the data from time point 18 beginning on Section C, "O'Brien's Chosen 19 four and treat that as a complete case 19 Imputation Method is Inappropriate for the 20 analysis. There's just too much missing. 20 dataset used," and you talk about how they 21 It would be terrible. 21 used, I'm sorry, page 25 of your report, Missing imputation takes the 22 Section 8, "O'Brien Relies on Circular 23 guesswork out of data when data is missing 23 Logic to Impute Genital Talc Use," and you

24 talk about inclusion of cancer status as

24 using statistics we actually know about

Page 312 Page 310 1 part of the model there as well. 1 course, that never exists. You're always A. Right. 2 suboptimal to that. But that is the kind 3 O. Okay. So one of your main 3 of situation where you would be more 4 criticisms and one repeated throughout your 4 comfortable with your missing imputation 5 report is that they used cancer status in 5 approach. 6 the model and that biases the hazard ratio 6 Q. Well, isn't it true that the 7 away from one, right? 7 authors of the 2024 article explain why 8 A. Right. 8 they include outcome status in their model 9 9 and actually cite a paper for that? And you think that is an Q. 10 absolutely wrong way in which to do 10 I don't recall exactly what 11 imputation and that's a fatal flaw of this 11 they said to justify using the outcome in 12 study, true? 12 their model. Well. I think that Well, let's look at it --13 A. 13 O. 14 exaggerates what I'm saying. I think I 14 A. Citing a paper, you can 15 would want to qualify that. You can in 15 always cite a paper for anything, the 16 multiple imputation use the outcome to do 16 point, but does it justify what your --17 some imputation. You have to be careful, 17 Q. Well, let's look at what they 18 but if you know that your outcome has bias 18 said. I mean, the question is whether or 19 baked in, then you're just going to 19 not their methods are reasonable, right? I 20 reinforce it. That's the circularity. If 20 mean, whether you would do it or not is 21 kind of irrelevant. The question is did 21 your outcome doesn't have any bias baked 22 in, you would be fine. Now, whether that's 22 they employ methods that are commonly used 23 because of people, more cases dying or not, 23 in the statistical community, true? 24 for the purposes of it being a problem here 24 MS. LEHMAN: Object to form. Page 311 Page 313 1 is to some degree irrelevant, because you 1 THE WITNESS: No, I think the 2 do have the differential missingness. It's 2 question is do the methods they use 3 there in the data. It's almost double in 3 appropriately solve the problem so 4 the cases of what it is in the controls, so 4 that they can make unbiased 5 inferences in the data that they 5 your imputation process is going to bake 6 all that back into the imputation part. 6 have. 7 BY MR. TISI: But, Doctor, isn't it true 8 that the imputation, the multiple 8 Q. Okay. Well, they, on page 4 9 imputation would be a fatal mistake to not 9 of their -- of their study, if you would go 10 include outcome status in the imputation 10 back to Exhibit No. 8. 11 model? 11 A. Yes, I'm there. 12 Actually, I mean, no, the 12 They have a paragraph on the A. 13 ideal situation with multiple imputation is 13 right-hand side that talks about multiple 14 that you have other variables, covariates 14 imputation under the methods section and 15 that could perfectly explain your 15 describes how they -- how they perform the 16 missingness that would not be related to 16 data. Could you blow that up, just that 17 the outcome so that you don't risk any kind 17 paragraph up, if you don't mind, Jeff? 18 of feedback error. But it's all other 18 Okay. In the paragraph, it says "We 19 covariates, other examples, demographic 19 included all the previously described 20 variables that could fully explain the 20 confounders and covariates in the 21 missingness. That's the perfect scenario 21 imputation model, as well as the cancer 22 where you would be as if you didn't have 22 outcomes and crude cumulative hazard 23 missing data. Because you would be able to 23 estimates, which corresponded to the hazard

24 of the earliest of the three cancer

24 perfectly predict the missingness. Of

	Page 314		Page 316
1	events."	1	identification.)
2	Do you see that?	2	
3	A. Yes.		BY MR. TISI:
4	Q. Now, the three cancer events	4	Q. Okay. And this is the paper
5	they were looking at was breast cancer,		upon which the authors rely for including
6			cancer status in their multiple imputation
7	A. I believe so.		model, correct?
8	Q. All right. And so they're	8	A. I think they use the paper to
1	including and this is something you	9	try and point out to kind of, like, say
	criticized them for, right?	-	what the method is that they're using for
11	A. What's the "this" that		kind of incorporating that data rather than
12	Q. That they're including the		as a justification, but
1	outcome increased this feedback loop that	13	Q. Well, they're basically
	you've talked about, that including cancer		saying we applied, we applied a multiple
	status as part of their imputation model		imputation methodology that was in the
	exaggerates the hazard ratio, right?		published literature and here it is at
17	A. Correct.		footnote 42 for the world to see, right?
18	Q. All right. But they actually		They just didn't say it without
1	cite a paper in support of why they did		attribution, true?
	what they did, right?	20	A. Yeah, again, they're just
21	A. You mean the citation number	21	saying this is the way they dealt with the
	32 there?	22	incorporating the outcome into their
23	Q. Correct. It's the Royston	1	imputation log.
1	and White paper, correct?	24	Q. So now let's look at whether
2-		2-	
1	Page 315 A. Yes, they cite that paper.	1	or not what this paper says.
2	Q. Right. And in fact, not only	2	A. Uh-huh.
3	do they cite	3	Q. Right. And you did not
4	A. I don't I'm sorry.	4	discuss this in your report, did you?
5	Q. And not only do they cite the	5	MS. LEHMAN: Objection, asked
6	paper, you have it on your reliance list,	6	and answered.
	correct, not reliance list, but a paper you	7	THE WITNESS: I don't believe
8	:	8	I discussed it in any way. I just,
9	A. Yes.		
	A. Tes.	9	like I said, I looked at it, I saw
10	Q. All right. And you don't	9 10	like I said, I looked at it, I saw what the kind of point of the
	Q. All right. And you don't	1	
10	Q. All right. And you don't discuss that paper at all in your report,	10	what the kind of point of the
10 11	Q. All right. And you don't discuss that paper at all in your report,	10 11	what the kind of point of the referencing it was. They use
10 11 12	Q. All right. And you don't discuss that paper at all in your report, do you?	10 11 12 13	what the kind of point of the referencing it was. They use software that uses this to
10 11 12 13 14	Q. All right. And you don't discuss that paper at all in your report, do you? A. No.	10 11 12 13	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes.
10 11 12 13 14	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see	10 11 12 13 14 15	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI:
10 11 12 13 14 15	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says.	10 11 12 13 14 15	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and
10 11 12 13 14 15 16 17	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this?	10 11 12 13 14 15 16 17	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and White might have been correct here, but
10 11 12 13 14 15 16 17 18	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this? Q. We do. I'm going to get it	10 11 12 13 14 15 16 17	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and
10 11 12 13 14 15 16 17 18 19	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this? Q. We do. I'm going to get it for you. I'm a little bit ahead of myself	10 11 12 13 14 15 16 17 18	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and White might have been correct here, but maybe not there, you didn't address it in
10 11 12 13 14 15 16 17 18 19	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this? Q. We do. I'm going to get it for you. I'm a little bit ahead of myself in my outline. Would you go to Exhibit 20,	10 11 12 13 14 15 16 17 18 19	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and White might have been correct here, but maybe not there, you didn't address it in any way, did you? A. I mean, White and Royston
10 11 12 13 14 15 16 17 18 19 20	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this? Q. We do. I'm going to get it for you. I'm a little bit ahead of myself in my outline. Would you go to Exhibit 20, please?	10 11 12 13 14 15 16 17 18 19 20 21	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and White might have been correct here, but maybe not there, you didn't address it in any way, did you? A. I mean, White and Royston
10 11 12 13 14 15 16 17 18 19 20 21	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this? Q. We do. I'm going to get it for you. I'm a little bit ahead of myself in my outline. Would you go to Exhibit 20, please?	10 11 12 13 14 15 16 17 18 19 20 21 22	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and White might have been correct here, but maybe not there, you didn't address it in any way, did you? A. I mean, White and Royston here are providing a method to incorporate
10 11 12 13 14 15 16 17 18 19 20 21 22	Q. All right. And you don't discuss that paper at all in your report, do you? A. No. Q. No, you don't, so let's see what that paper actually says. A. Do we have this? Q. We do. I'm going to get it for you. I'm a little bit ahead of myself in my outline. Would you go to Exhibit 20, please? A. Yes.	10 11 12 13 14 15 16 17 18 19 20 21 22	what the kind of point of the referencing it was. They use software that uses this to incorporate their outcomes. BY MR. TISI: Q. Right. And they and you didn't say, well, you know, Royston and White might have been correct here, but maybe not there, you didn't address it in any way, did you? A. I mean, White and Royston here are providing a method to incorporate outcomes, survival outcomes within multiple

Page 318 Page 320 1 sorry, let's see what they say. It says 1 BY MR. TISI: 2 multiple imputation -- can you please 2 O. Well, let's continue. It 3 scroll up, please? "Multiple imputation is 3 says here on page 1983. "When the 4 commonly used to impute missing data, and 4 incomplete data are covariates in the 5 is typically more efficient than complete 5 analysis model, the analysis model outcome 6 cases analysis in regression analysis when 6 must be used to predict the missing 7 covariates have missing values. Imputation 7 covariate values. Although this practice 8 may be performed using a regression model 8 may seem counterintuitive, it is in fact 9 essential," correct? 9 for the incomplete covariates or other 10 covariates and, importantly, on the 10 I would really have to sit 11 outcome." Right? Correct? 11 with this and look at the context. So if Yeah, the qualifier there is 12 you want to give me a minute to read the 12 13 it may be performed. 13 paragraph before and after, I'm happy to do 14 Well, and then it says 14 that, but I'm not going to --15 importantly, includes the outcomes, right? 15 Q. Did you read this paper? I Again, linked with the word 16 mean, this is the paper upon which they 16 17 "may," you may include the outcome. 17 relied to perform the multiple imputations 18 Q. Right. And it goes on to say 18 that they did for missing data. This was 19 "We compare the methods using simulation 19 the only paper that they relied on. Did 20 studies. We find that using log T biases 20 you look at it? 21 21 covariate-outcome association towards the MS. LEHMAN: Object to form. 22 null, while the new methods have lower 22 Asked and answered. 23 bias." 23 THE WITNESS: Yes, I looked at 24 24 Do you see that? it. I didn't go through it in Page 319 Page 321 1 A. Yes. 1 detail. 2 BY MR. TISI: 2 Q. And they go on to say 3 "Overall, we recommend including event 3 Q. Okay. 4 indicator and the Nelson-Aalen estimator in I looked through it just --4 5 the imputation model." 5 it's kind of a tangential. They are giving 6 Do you see that? 6 this as a reference because it's the 7 A. Yes. 7 approach that the software that they use, I 8 believe they use, they would have used as a 8 Go down please, a little Q. 9 further. 9 status SSR and that software uses this in 10 10 how it puts things together and they would But I'm going to qualify it, 11 have used it. I don't think when they are 11 they're not saying that you should do that 12 when your outcome has bias already induced 12 referencing this paper they're saying look 13 in it. 13 at this to justify our incomplete data. Q. On what basis would you 14 I understand, but you've 14 15 criticized them, you've criticized the 15 say -- on what basis do you say -- they 16 authors here for daring to include an 16 say, they cite this paper for including all 17 outcome in their imputation model and this 17 the covariates as well as the outcomes in 18 article says you need to. If you're going 18 their multiple imputation model. They cite 19 to do it, you need to include the outcome, 19 it for that purpose. 20 correct? 20 A. I don't believe that's what 21 MS. LEHMAN: Object to form. 21 they do --THE WITNESS: I don't think it 22 22 Well, let's go back and see 23 23 what they say. Go back to the paper, on says that. 24 24 page 4, it says "We included all of the

1	Page 322	1	Page 324
	previously described confounders and covariates in the multiple imputation, as	$\frac{1}{2}$	now? This is a good time to take a break. Why don't you take a look at the paper at
	well as each of the cancer outcomes in the	$\frac{2}{3}$	the break?
	crude cumulative hazard estimates."	4	A. You know what, that could be
	Citation White and Royston.	5	great. I would appreciate that. Thank
6	A. That's for the method of	6	you.
1	using the crude cumulative hazard estimate.	7	Q. No problem.
8	Q. Right, for cancer	8	Q. To problem.
9	A. It doesn't say we justify our	9	(A recess was taken at this time.)
	use of the outcome based on this paper. I	10	(A recess was taken at this time.)
	mean, like I say, I'm happy to read through	11	BY MR. TISI:
	those paragraphs if you want me to to put	12	Q. Doctor, we have been talking
	them into context.	l	about the White and Royston article. We
14	Q. Let's go back to the Royston		gave you an opportunity to go off the
	article, the White and Royston article.		record and read it. Have you had an
16	A. Yeah.		opportunity to read it?
17	Q. They say failure to include,	17	A. I believe I've had an
	while it may be counterintuitive, failure	l	opportunity to scan it, yes.
	to include outcomes is essential, true?	19	Q. Yeah. And I think before you
20	MS. LEHMAN: Objection. The	l	had indicated that you had not really, I
21	article speaks for itself.		think, read it in detail previously, is
	BY MR. TISI:		that true or had you read it in detail?
23	Q. If you're going to do it, you	23	A. I think I would say that
	need to include outcomes, right?	l	statement still holds, it's a deeply
			* *
1	Page 323 MS I EHMAN: Same objection	1	Page 325
1	MS. LEHMAN: Same objection.		math it's a mathematically, technical
2	MS. LEHMAN: Same objection. THE WITNESS: I'm going to	2	math it's a mathematically, technical paper that goes into some simulation
3	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you	3	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look,
2 3 4	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI:	2 3 4	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would
2 3 4 5	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great.	2 3 4 5	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at.
2 3 4	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the	2 3 4 5 6	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before
2 3 4 5 6 7	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you	2 3 4 5 6 7	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the
2 3 4 5 6 7 8	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a	2 3 4 5 6 7 8	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right?
2 3 4 5 6 7 8 9	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when	2 3 4 5 6 7 8 9	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this
2 3 4 5 6 7 8 9	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no	2 3 4 5 6 7 8 9	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that
2 3 4 5 6 7 8 9 10 11	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no Q. Well, let's	2 3 4 5 6 7 8 9 10 11	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that Q. Okay.
2 3 4 5 6 7 8 9 10 11 12	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no Q. Well, let's A it's not. You cannot	2 3 4 5 6 7 8 9 10 11 12	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that Q. Okay. A statement.
2 3 4 5 6 7 8 9 10 11 12 13	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no Q. Well, let's A it's not. You cannot you cannot look at a complex, statistical	2 3 4 5 6 7 8 9 10 11 12 13	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that Q. Okay. A statement. Q. So having now had an
2 3 4 5 6 7 8 9 10 11 12 13 14	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no Q. Well, let's A it's not. You cannot you cannot look at a complex, statistical methodological paper and then just say, oh,	2 3 4 5 6 7 8 9 10 11 12 13	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that Q. Okay. A statement. Q. So having now had an opportunity to review the paper, and if you
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no Q. Well, let's A it's not. You cannot you cannot look at a complex, statistical methodological paper and then just say, oh, you can just read this and understand it	2 3 4 5 6 7 8 9 10 11 12 13 14 15	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that Q. Okay. A statement. Q. So having now had an opportunity to review the paper, and if you put it up again, it says, the article says
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. LEHMAN: Same objection. THE WITNESS: I'm going to look at that, I mean, if you BY MR. TISI: Q. Great. A. Are you just reading out the statement to me or are you Q. I'm reading, I mean, it's a pretty clear statement, it says, when A. No, no, no, no Q. Well, let's A it's not. You cannot you cannot look at a complex, statistical methodological paper and then just say, oh, you can just read this and understand it and interpret it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the feedback loop, right? A. No, and I don't think this paper is relevant to that Q. Okay. A statement. Q. So having now had an opportunity to review the paper, and if you put it up again, it says, the article says "When the incomplete data are covariates in
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	Page 326		Page 328
1	Q. Do you agree or disagree with	1	in favor of null, correct?
2	that statement?	2	A. I would agree that it's of
3	A. I don't know that I either	3	interest whether bias any bias is bad.
4	agree or disagree. Well, I certainly am	4	Q. Right.
5	not going to argue it, but I would say this	5	A. We can agree to that, I
6	is conditional, based on what I've seen in	6	think. And bias whether that's bias
7	the simulation studies, quickly looking	7	towards the null or bias away from the
8	through, on outcome data not incorporating	8	null, bias away from the null is the most
9	bias in any way. And also that and as	9	dangerous though when you are considering
10	is required for all multiple imputation	10	statistical inference and whether or not to
11	models to with a basic assumption that	11	reject a null hypothesis. For example, if
12	you are in a missing at random situation	12	you're trying to get a drug approved with
13	not a missing not at random situation.	13	FDA, they're not going to worry too much
14	Q. Well, we	14	about you having bias towards the null.
15	A. Here the problem is that the	15	They're going to be much more worried about
16	second time point values being incorporated	16	you having bias away from the null.
17	into the imputation model incorporates	17	Q. Right. And it's not like the
18	bias. So I would stand by that statement.	18	authors here did not consider the potential
19	The exact details here of what they why	19	of bias. We're going to talk about that in
20	they say must be and essential, I would	20	a moment, but the question higher with the
21	defer answering.	21	multiple imputation is really just
22	Q. Well, I mean, if I'm	22	calculating the hazard ratio and then after
23	understanding this correctly and I'm just,	23	that considering whether or not it's the
24	you know, I'm just a lawyer, right, so I'm	24	result of bias, right? I mean, the first
	Page 327		Page 329
	trying to understand this, but if I	l	question is
2	trying to understand this, but if I understand this question correctly,	2	question is A. No, no.
2 3	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question	2 3	question is A. No, no. Q. If I'm understanding
2 3 4	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the	2 3 4	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question.
2 3 4 5	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation	2 3 4 5	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay.
2 3 4 5 6	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of	2 3 4 5 6	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the
2 3 4 5 6 7	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of missingness, am I right?	2 3 4 5 6 7	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the process, the first thing that they did was
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of missingness, am I right? A. Well, imputation is about trying to fill in missing data as Q. Correct. A best you can in a way that your analysis is as unbiased as it can be. But that is separate, like, the missing data approach can incorporate bias and then it becomes a problem. Q. And then you always have to you always have to account for bias, right? I mean, even whether it's a bias away from the null or towards the null, you always have to, when you're doing statistical analysis of this type, you know, question one is how did you calculate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the process, the first thing that they did was do a quantitative bias analysis to calculate a hazard ratio. And the second question is acknowledging the potential for recall bias, how do they address that question. They're really two separate questions, right? MS. LEHMAN: Object to form. THE WITNESS: I don't know that they're separate. It's like bias upon bias, that one part of the bias is the part that they do the what they call a correction for. And then they do the imputation incorporating that bias and rolling it in and baking it in
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Page 330 Page 332 1 is recall bias and we'll kind of 1 I'm just going to think play around with some numbers that 2 2 through that. I think if you had just --3 we make up of what it might be. 3 yeah, in a very general sense, if you -- if 4 BY MR. TISI: 4 you have a complete -- if you just use the 5 Right. But the first 5 complete case analysis like they did, we O. 6 question really is, and just to be, just so 6 can even go back to, was it Table 3 with 7 we have a clear record, what they're doing 7 the final row that you were describing the 8 with the quantitative bias analysis is 8 analyses that they only look after the 9 accounting for contradictory missing data 9 follow-up time, do you remember? 10 in order to calculate a risk ratio, 10 O. Yeah. 11 correct? If we go to it, yeah. 11 12 Α. I don't think they're 12 O. No --13 accounting for anything. I mean, 13 A. Go ahead. 14 accounting and statistics, accounting for 14 Q. No. I mean, I guess I'm 15 something means incorporating it into the 15 trying to get at the concept that White and 16 model as something that you're estimating 16 Royston make on page 1983, it says 17 in some way, typically, as part of the 17 important -- they say "it is important to 18 modeling procedure. They're not doing that 18 find the right way to include the survival 19 here. They're just changing data. 19 outcome in the imputation model because, 20 Q. And to be clear, Doctor, when 20 otherwise, the association between the 21 somebody does a multiple imputation, they 21 covariate and the surveillance survival is 22 don't know ahead of time how it's going to 22 likely to be diluted." 23 23 affect the hazard ratio, do they? They A. Right, but you're diluting, 24 don't know if it's going to go towards the 24 like in that, it's -- that statement is Page 331 Page 333 1 null or away from the null, it could go 1 true. I think there's an important caveat 2 either way. 2 there of finding the right way to include A. I mean, relative to what, 3 the survival outcome. 3 4 relative to if they did a complete case And then there's another 5 analysis, you mean, or relative to what? 5 important aspect to this is you're diluting Q. They don't know, what I'm 6 what you have, but in the complete data 7 trying to say is there's no way to predict 7 analysis that you're starting from that you 8 what the results of the imputation process 8 would be diluting in the O'Brien (2024) 9 is going to be in terms of amplifying or 9 paper with starting using only follow-up, 10 tamping down the hazard ratio, correct? 10 only -- let's say you were using that 11 I don't agree with that, 11 example of the -- you're starting from the 12 because if you know about sources of bias, 12 follow-up time point and you're looking 13 then you can start to predict the 13 prospectively, then there's only -- you 14 direction, you could have predicted the 14 have limited data there because of weak --15 direction here based on their steps. If 15 well, because of -- partly possibly because 16 you looked at the data that they have just 16 of whatever answer you get there, if you 17 in the tables and you know what the steps 17 then impute missing data that will get 18 are they're going to do, you know that 18 biased, that move towards the null. I 19 these steps will bias you away from the 19 don't think bias at the right word, but it 20 null. 20 will move towards the null --21 21 Q. Let me see if I can put it O. Well, wouldn't not including 22 the survival status or the outcome in the 22 another way. The authors here -- I'm 23 model have biased the results towards the 23 sorry. I'm sorry. The authors here

24 described a method including cancer status

24 null?

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3

4

- 1 in the imputation model and they cite, I
- 2 think I said it wrong before, I said 42, I
- 3 think I meant footnote 32, which is the
- 4 White and Royston model. Okay? You would
- 5 not include cancer status in the imputation
- 6 model because it would create this feedback
- 7 loop, right?
- 8 A. Because you're in the kind
- 9 of -- you're in the missing not at random
- 10 situation, yeah, you have bias in that
- 11 data, yes.
- 12 Q. So what is your authority
- 13 for, I mean, if I'm reading this paper
- 14 correctly and I'm just a lawyer, right, I'm
- 15 reading this saying although this practice
- 16 of including cancer status in an imputation
- 17 model, this may seem counterintuitive is in
- 18 fact essential, right, when I read that, I
- 19 need to take the opposite point of view
- 20 that putting cancer status would amplify
- 21 the risk and, therefore, should not be
- 22 included and I want to know, you know, your
- 23 authority, is there a textbook, an article
- 24 or something where you can say, point me to

- e 334
 - 1 going to incorporate that bias into your
 - 2 imputation. I mean, that's --
 - Q. Would you go to --
 - A. The simulations that they
 - 5 have here in White and Royston do not
 - 6 incorporate those kinds of biases, they're
 - 7 simulations under ideal missing at random
 - 8 situations and where they do not have bias
 - 9 in their outcomes.
 - 10 Q. So I'm going to look at, and
 - 11 can we go to your number 42 in your report,
 - 12 please, where you talk about MICE
 - 13 procedure. Do you see --
 - A. I'm sorry, I'm still getting
 - 15 there. In my 42, I don't see that, no.
 - 16 Q. It says -- I'm sorry?
 - 17 A. I say, I'm talking about
 - 18 imputations later, but --
 - 19 Q. Let me ask you this, will the
 - 20 MICE procedure classify all women as talc
 - 21 users? The MICE procedure is a predictive
 - 22 model that will classify women as users and
 - 23 some women as nonusers, right?
 - A. Clearly, it doesn't, because,

Page 335

1 that is the counter to White and Royston?

- 2 A. Well, White and Royston is
- 3 under the assumption that missing multiple
- 4 imputation is appropriate, which is the
- 5 missing at random situation.
- 6 O. Okav.
- 7 A. Under that -- under that
- 8 assumption, and if your outcomes are
- 9 unbiased, I mean, I don't -- there is --
- 10 and so Rubin's book will tell you you can't
- 11 use multiple imputation if you're missing
- 12 not at random.
- 13 Q. Okay.
- 14 A. You can go all the way back
- 15 there and you can look at every textbook on
- 16 multiple imputation, it says if you have
- 17 missing not at random, multiple imputation
- 18 as it stands is inappropriate.
- 19 Then there's also -- I don't
- 20 know if you'll find a textbook, but there's
- 21 an implicit assumption that your data that
- 22 you have is right and not biased. And if
- 23 you do have biased data that you're
- 24 building your imputation model from, you're

- Page 337 1 otherwise, it would be the same as Scenario 2 3.
- 3 Q. Well, okay. But --
 - A. We would get exactly the same
- 5 answer, because you would get exactly the
- 6 same data as you imputed in Scenario 3.
- 7 Q. To be clear, using MICE on
- 8 this dataset was never going to be and did
- 9 not in fact classify all talc -- all
- 10 ovarian cancer cases where there was
- 11 missing data as nonusers or as users?
- 12 A. I'm just trying to follow the
- 13 logic through and there's --
- 14 Q. Let me rephrase my question.
- 15 A. I think most likely not, but
- 16 there is a bizarre scenario where you
- 17 classified all the cases as one thing and 18 all the non-cases were mixed up, but it
- to an the non-eases were mixed up, of
- 19 would be very bizarre.
- Q. Well, in fact, multiple
- 21 imputation takes the guesswork out of data
- 22 analysis when data is missing using data
- 23 that statisticians do in fact know about to
- 24 predict in this case use or nonuse, right?

	Page 229		Page 240
1	Page 338 A. I would qualify that, it	1	Page 340 each of your imputed datasets and you're
$\frac{1}{2}$	tries to.	$\frac{1}{2}$	building your confidence intervals from
3	Q. Okay.	3	those.
4	A. It depends on whether you	4	The more uncertainty there
5	have the information to do that.	5	is, the more imputations you need to get a
6	Q. Right.	1	
7	A. There are other variables.	7	Q. Right, so it won't cause
8	Q. And in this case, you have	8	A. But in practice, it's very
9	not, to my knowledge, attacked the	1	hard to sort of, like, run more than, you
10	proprietary, other than cancer outcome, of	1	know, ten imputations. It's an expensive
	the variables used by the authors to		computational process.
	predict whether or not a woman is nonuser	12	Q. Well, it won't cause bias
	or user in the case of missingness?		actually by, even if they were not good
14	A. I think I do point to it, if	1	predictors, the variables used, they would
15	you go to paragraph, I think it's 54, going	1	just cause variance, for example, multiple
	on to the top of page 25. So these are	1	imputations will accurately convey how much
	these are the variables they're using for	1	information there actually is in the data
18	multiple imputation beyond an outcome, at	1	about the relationships, true?
19	least some of them, and you see, like,	19	A. I didn't say they would cause
20	across the board, they're really small	20	bias. These, the non-outcome related
21	correlations and so you can't predict	21	predictors, if they're measured well, will
22	you can't predict the missingness when	22	not cause bias. They just won't provide
23	there's such little information in the	23	any information about what the missing
24	covariate. You can't predict it well. So	24	value is.
	Page 339		Page 341
1	Page 339 you're taking a little bit of the guesswork	1	Q. And that in fact
		1 2	
	you're taking a little bit of the guesswork		Q. And that in fact
	you're taking a little bit of the guesswork out maybe if these estimates are real and	2	Q. And that in factA. It's basically just
3	you're taking a little bit of the guesswork out maybe if these estimates are real and not just sort of, like, noise in the data. But you're only going to be predicting a little bit.	2 3	 Q. And that in fact A. It's basically just simulating it completely at random. Q. And that's a big problem with single imputation, since basically it
2 3 4 5 6	you're taking a little bit of the guesswork out maybe if these estimates are real and not just sort of, like, noise in the data. But you're only going to be predicting a little bit. Q. Well, isn't it okay, and I'm	2 3 4 5 6	Q. And that in fact A. It's basically just simulating it completely at random. Q. And that's a big problem with single imputation, since basically it pretends that each value is true but is not
2 3 4 5 6 7	you're taking a little bit of the guesswork out maybe if these estimates are real and not just sort of, like, noise in the data. But you're only going to be predicting a little bit. Q. Well, isn't it okay, and I'm probably using the wrong word	2 3 4 5 6 7	Q. And that in fact A. It's basically just simulating it completely at random. Q. And that's a big problem with single imputation, since basically it pretends that each value is true but is not a problem with multiple imputation because
2 3 4 5 6 7 8	you're taking a little bit of the guesswork out maybe if these estimates are real and not just sort of, like, noise in the data. But you're only going to be predicting a little bit. Q. Well, isn't it okay, and I'm probably using the wrong word statistically, but isn't it all right if	2 3 4 5 6 7 8	Q. And that in fact A. It's basically just simulating it completely at random. Q. And that's a big problem with single imputation, since basically it pretends that each value is true but is not a problem with multiple imputation because that's the whole kind of point of doing it,
2 3 4 5 6 7 8 9	you're taking a little bit of the guesswork out maybe if these estimates are real and not just sort of, like, noise in the data. But you're only going to be predicting a little bit. Q. Well, isn't it okay, and I'm probably using the wrong word statistically, but isn't it all right if they aren't good predictors, because in	2 3 4 5 6 7 8 9	Q. And that in fact A. It's basically just simulating it completely at random. Q. And that's a big problem with single imputation, since basically it pretends that each value is true but is not a problem with multiple imputation because that's the whole kind of point of doing it, right, multiple imputations
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you're taking a little bit of the guesswork out maybe if these estimates are real and not just sort of, like, noise in the data. But you're only going to be predicting a little bit. Q. Well, isn't it okay, and I'm probably using the wrong word statistically, but isn't it all right if they aren't good predictors, because in that circumstance, multiple imputations will be variable across imputations and it will just increase the uncertainty or the width of the confidence interval? A. That's certainly part of it, but it's not the complete story. So you can get to a point where you're adding in variables and you're adding in noise into the process. Also, when you do multiple imputation, if you're to have you have to do some combination across imputations.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And that in fact A. It's basically just simulating it completely at random. Q. And that's a big problem with single imputation, since basically it pretends that each value is true but is not a problem with multiple imputation because that's the whole kind of point of doing it, right, multiple imputations A. I'm not going to argue I'm not arguing that single imputation is better by a long way and that also has, you know, the only reason that single imputation gets used anymore for super massive datasets, where it's just computationally too expensive to do any other kind of imputation. But what I am saying here is that, okay, just if you're setting your bar super low and you're saying we can beat that bar a little bit by

But, again, I mean, the

24

24 approaches, but, you know, basically taking

	D 242		D 244
1	Page 342 actual variables used are disclosed in the	1	Page 344 BY MR. TISI:
1	paper, I think it's footnote D of the	2	Q. Have you done that?
	table. I've got to find my copy of it.	3	A. Have I searched their
	It's contained in footnote D of Table 2,	_	website
5	correct?	5	Q. Have you looked
6	A. In footnote	6	A as to whether they tell
7	Q. Two, I have it on the screen	7	2
	as well, if it that helps locate it.	8	paper that should have included that
9	A. No, I've located it, it's	9	information? I did not do that, no.
	just small writing. So it lists additional	10	Q. Well, okay. You know, I
	variables used over and above those that		mean, you've written papers before and I'm
1	are used for the survival analysis, but		sure people could always say that more
	it's not completely clear what are the		could have been included that wasn't,
	variables that come from the survival		right, you've heard that before, right?
	analysis. So it's not clear that we have a	15	A. Yeah, I'm not going to
	complete list here.		dispute that there are papers that I have
17	Q. Again, you don't know the	17	been involved in that there are certain
1	answer to that question, so it's	18	aspects that are that some detail that
19	A. Well, no, the answer to that		may have been missed. But here
20	question is that it's incomplete.	20	Q. Right.
21	Q. Okay. So my question though	21	A there are just so many, on
22	is they've disclosed the imputation model	22	so many levels, there are stuff missing
1	including both the variables that they used		that it goes beyond my analysis.
24	and the outcome status in their article,	24	Q. I understand, I get it. I
	Page 343		Page 345
1	including the reasons why they did it,	1	get it. And you've identified those you
2	true, they cited White and Royston?	2	have identified those in eight days after
3	A. They don't completely	3	\$50,000, right?
4	disclose the predictors in the multiple	4	MS. LEHMAN: Object to form.
5	imputation model, because they're saying	5	Argumentative.
6	they use it, what they had in the	6	THE WITNESS: I identified
7	multivariable analysis, which they don't	7	those pieces that I found within my
8	completely specify. In addition, those two	8	report after performing an
	pieces, even if they were complete, would	9	independent review of this paper.
	not completely describe the imputation		BY MR. TISI:
	process, because they don't say what kind	11	Q. And that was your charge,
	of model they use for the imputation. Are	12	right? Tell me what's wrong with this
	they using logistic regression, probit	13	paper.
	regression? There are multiple ways of	14	MS. LEHMAN: Object to form.
	imputing a binary variable and they don't	15	THE WITNESS: I said before, I
1	say what	16	was asked to give an independent
17	Q. Have you searched have you	17	review of this paper. That's what
	· · · · · · · · · · · · · · · · · · ·	18	I did.
18	searched the website for the Sister Study		DILLIO DIGI
18 19	searched the website for the Sister Study to see whether or not that data is	19	BY MR. TISI:
18 19 20	searched the website for the Sister Study to see whether or not that data is available?	19 20	Q. If you were asking for an
18 19 20 21	searched the website for the Sister Study to see whether or not that data is available? MS. LEHMAN: Object to form.	19 20 21	Q. If you were asking for an independent review, did you say, you know,
18 19 20 21 22	searched the website for the Sister Study to see whether or not that data is available? MS. LEHMAN: Object to form. THE WITNESS: It's not data,	19 20 21 22	Q. If you were asking for an independent review, did you say, you know, I'm going to do this, I'm going to do this
18 19 20 21	searched the website for the Sister Study to see whether or not that data is available? MS. LEHMAN: Object to form.	19 20 21 22 23	Q. If you were asking for an independent review, did you say, you know,

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1 let's be fair, true?

- 2 MS. LEHMAN: Object to form.
- 3 Argumentative. Asked and answered.
- 4 BY MR. TISI:
- 5 Q. When you say it's
- 6 independent --
- 7 A. I would not be doing this if
- 8 I was not paid. I would not be doing my
- 9 work as a professor if I was not paid for
- 10 it.
- 11 Q. All right.
- 12 A. So it's not my hobby, right.
- 13 Q. But your work as a professor
- 14 is not being paid by a company who is
- 15 defending their product, true? Your work
- 16 as a professor is to --
- 17 A. I'm actually trying to think
- 18 of whether there are situations in my work
- 19 as a professor where, I mean, so certainly
- 20 there are, you know, in my work in
- 21 dementia, we're doing things related to
- 22 clinical trials which are in the interest
- 23 of companies, so.
- Q. So we talked about -- we have

- Page 348

 1 A. We've talked about the steps
 - 2 they took to come up with that number and
 - 3 what they claim is an analysis of recall
 - 4 bias.
 - 5 Q. Well, that's the second step
 - 6 that they did, they acknowledged the
 - 7 potential because they were using
 - 8 retrospective data in the -- they used
 - 9 prospective data from the initial
 - 10 questionnaire and retrospective data from
 - 11 the supplemental questionnaire and then
 - 12 they tried -- they calculated their hazard
 - 13 ratio, but they did more recall bias,
 - 14 didn't they?
 - 15 A. At what point are you saying
 - 16 they didn't --
 - 17 Q. Well, they acknowledge the
 - 18 potential for recall bias and then tested
 - 19 the hazard ratio to see whether or not
 - 20 reasonably there would be a -- that the
 - 21 risk was likely related to recall bias,
 - 22 correct?
 - A. I would dispute the word
 - 24 "reasonably" there. I think here what

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- 1 been talking about recall bias all day in
- 2 the context of the bias analysis that came
- 3 to category four in Table 2, the 1.81
- 4 hazard ratio, correct?
- 5 A. Well, I think there's two
- 6 pieces here. What they call quantitative
- 7 bias analysis is really their manipulation
- 8 of outcomes, what they call a correction.
- 9 And then the recall bias is another step
- 10 kind of on top of that afterwards, but
- 11 those two things combined are indeed in
- 12 their Scenario 4.
- 13 Q. So, right, so what I really
- 14 want to focus on, I spent time talking
- 15 about how they came up with the 1.81 hazard
- 16 ratio for the relationship between talc and
- 17 ovarian cancer --
- 18 A. Just to be clear for, like,
- 19 do you mean the 1.82 point in Scenario 4?
- Q. I'm sorry, you're correct,
- 21 you're correct. Actually, it's -- yes,
- 22 correct. And we have been talking about
- 23 how they came up that number acknowledging
- 24 the potential for recall bias, correct?

- 1 we're -- if we're still talking about
- 2 Table 2, there's no -- none of their -- the
- 3 recall bias step is not yet entered when
- 4 we're here. This is just their
- 5 contradictory data manipulation plus
- 6 multiple imputation. Then later on, they
- 7 have in Figure 2, their recall bias, what
- 8 they call scenarios, which is really their
- 9 what-if situations.
- 10 Q. All right. They say --
- 11 A. What do you mean by
- 12 "reasonable"?
- Q. Well, they're saying that
- 14 they're basically taking their data and
- 15 they're saying what if there is recall
- 16 bias, would we still have a positive
- 17 association, correct?
- 18 A. They are trying to do this
- 19 through their random flipping process.
- Q. Okay. And throughout your
- 21 report, you talk about recall bias, but it
- 22 is in fact a theoretic concern, true?
- MS. LEHMAN: Object to form.
- Asked and answered.

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	D 050		D 050
1	Page 350 BY MR. TISI:	1	Page 352 data regarding talc use in the it says
2	Q. In other words, recall bias		there was evidence in the Sister Study that
	is a theoretical concern that those who		recall bias was not as significant as to
	have the disease may differentially recall		contaminate the data, correct? You use the
5	an exposure compared to those who don't	l	word "contamination." In fact, we talked
6	have the disease, correct?		about some of the issues before. They did
7	MS. LEHMAN: Same objection.		the recall paper in 2023 where they said it
8	THE WITNESS: Are we talking		was consistency in recall of talc use.
9	about in this situation here or		They looked at the subset of people whose
10	BY MR. TISI:		data was truly prospective and saw a
11	Q. I'm talking about generally.		positive hazard ratio, although
	Generally, recall bias is a theoretical		statistically not significant.
13	•	13	So they had evidence that in
	differentially recall an exposure as	l	this particular population, there was not
15	compared to those who do not have the	15	the evidence of recall bias that would make
	disease?		this data unusable, true?
17	A. I don't know that.	17	MS. LEHMAN: Object to form.
18	MS. LEHMAN: Same objection.	18	THE WITNESS: That was a very
19	THE WITNESS: That's a theory.	19	long question and I think you begun
20	I think it's something that exists	20	by saying that there's some you
21	in many problems.	21	try to imply that there's some
	BY MR. TISI:	22	level of recall bias that this is
23	Q. Right. And we know that	23	below such that it doesn't
	there are many, many scientists who	24	contaminate the data. You know, if
	, , , , , , , , , , , , , , , , , , ,		
	Daga 251		Daga 252
1	Page 351 question whether or not recall bias really	1	Page 353 there's any recall bias, it's
	question whether or not recall bias really	1 2	there's any recall bias, it's
2	question whether or not recall bias really is as significant as, for example, you are	2	there's any recall bias, it's contaminating the data. It's a
	question whether or not recall bias really is as significant as, for example, you are saying it is, true?		there's any recall bias, it's
2 3	question whether or not recall bias really is as significant as, for example, you are saying it is, true? A. I don't know what they're	2 3	there's any recall bias, it's contaminating the data. It's a question of what level. BY MR. TISI:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	question whether or not recall bias really is as significant as, for example, you are saying it is, true? A. I don't know what they're calling significant versus what I'm saying it is. I don't know. I haven't argued with anybody about it. I really don't the question is just super vague. Q. Okay. Well, in this case, the authors of O'Brien (2024), these NIH scientists, did not ignore the potential for recall bias using the supplemental questionnaire in conjunction with the enrollment questionnaire, did they? A. I mean, they took these steps where they did things and then they did these what-if adjustments for whatever proportions might be recall bias of different scenarios that did they they didn't I mean, it's here in the paper, so they didn't, like, ignore recall bias as being a thing. I mean, they acknowledge it's a problem.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	there's any recall bias, it's contaminating the data. It's a question of what level. BY MR. TISI: Q. Right. And when they looked at that question objectively, they published a paper in 2023 which indicated that that was not a big problem with this particular dataset, true? A. I know, I accept that that's their conclusion. I mean, basically, is that first of all, I don't see how they could possibly assess a precise measure of recall bias when there's no matching questions between the two surveys. They don't match. They don't align. Even if they did align, thus, pointing to 87 percent agreement, that's 13 percent disagreement. And that's proportionately affected in the cases. That can lead to a very big amount of recall bias. Q. Have you done the math to see how much how much have you done the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	question whether or not recall bias really is as significant as, for example, you are saying it is, true? A. I don't know what they're calling significant versus what I'm saying it is. I don't know. I haven't argued with anybody about it. I really don't the question is just super vague. Q. Okay. Well, in this case, the authors of O'Brien (2024), these NIH scientists, did not ignore the potential for recall bias using the supplemental questionnaire in conjunction with the enrollment questionnaire, did they? A. I mean, they took these steps where they did things and then they did these what-if adjustments for whatever proportions might be recall bias of different scenarios that did they they didn't I mean, it's here in the paper, so they didn't, like, ignore recall bias as being a thing. I mean, they acknowledge	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	there's any recall bias, it's contaminating the data. It's a question of what level. BY MR. TISI: Q. Right. And when they looked at that question objectively, they published a paper in 2023 which indicated that that was not a big problem with this particular dataset, true? A. I know, I accept that that's their conclusion. I mean, basically, is that first of all, I don't see how they could possibly assess a precise measure of recall bias when there's no matching questions between the two surveys. They don't match. They don't align. Even if they did align, thus, pointing to 87 percent agreement, that's 13 percent disagreement. And that's proportionately affected in the cases. That can lead to a very big amount of recall bias. Q. Have you done the math to see

Page 354 Page 356 1 studies, and I'll represent to you that 1 introduced by a 13 percent mismatch? 2 I don't need to, because I 2 both, and I talked about this before, both 3 actually have the data here in O'Brien 3 the Nurses' Study and the Women's Health 4 (2024) that tells us what the recall -- the 4 Initiative used a questionnaire after the 5 differential recall actually is here. You 5 study began to talk about telecues. It 6 can see it in table -- in Table A5, row 4, 6 happens all the time, true? 7 7 that in overall, 19 percent said nonuser at A. I would want to look at the 8 enrollment, missing at follow-up. 8 specifics of those questionnaires, because 9 Thirty-seven percent of cases, that's 9 there's two different ways you can look at 10 basically kind of you double the non-cases 10 data after the start point of the study. 11 are missing at follow-up after saying they 11 There is kind of like retrospective asking 12 were nonuser at enrollment. That's 12 of questions of what was or this 13 differential recall. 13 longitudinal data gathering where you're 14 Well, they may be missing in 14 updating information as you go along. Q. 15 follow-up, Doctor, because they died, 15 That's different than trying to --Q. I understand. I get it. I 16 right? 16 17 But that's still the same 17 get it. But if -- what I'm trying to get A. 18 problem for the analysis. 18 at here is retrospective data is used by 19 Well, it's not, that's why 19 epidemiologists and statisticians all the O. 20 you use multiple imputation, correct? 20 time, true? 21 21 A. No --Well, statisticians analyze MS. LEHMAN: Object to form. 22 22 retrospective data. Epidemiologists look 23 at retrospective data. It's generally 23 BY MR. TISI: 24 preferred to have prospective data. It 24 Q. The data is missing and now Page 355 Page 357 1 you want to look and see whether or not the 1 doesn't mean, like, retrospective data is 2 data you have predicts them as being a user 2 something you can learn from, but --3 or nonuser, true? 3 And prospective data --4 -- but you're facing A. No, this is exactly what I'm A. 5 limitations when you do that. 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 6 Prospective data has its own 7 multiple imputation. This is your problem. 7 limitations, for example, prospectively 8 This is one of the problems that I talked 8 collected data can introduce differential 9 about, and then also incorporating the 9 misclassification, true, misclassification? 10 correct and contradictory data, 10 The same with retrospective 11 incorporating the manipulation of data, 11 data. 12 this is all in there. It's a problem. You 12 Right. And so you always O. 13 can't just -- you can't wave a magic wand 13 have to be careful about biases. It's not, 14 and fix this. 14 like, one study design is better than 15 Q. Okay. You know that 15 another. You have to basically look at the 16 epidemiologists use retrospective data all 16 strengths and weaknesses of each study and 17 the time, true? 17 then look at it in the context of 18 A. They use --18 everything else that happened, true?

MS. LEHMAN: Object to form.

THE WITNESS: That's true, but

it's also true that, you know, that

level here. And when you're doing

there's still a difference in the

things prospectively, there is a

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Q. 20 retrospect study?

Q.

A control study is a

22 study. And they're also always qualified

23 by the limitations of being retrospective.

Yes, retrospective for this

Sure. Right. Even cohort

	Dog 259		Daga 260
1 risk of if any bias of it	Page 358	1	Page 360 which is about their main objective and
towards the null, but th	_		then the second sentence is what they tried
what you're mostly s			to do to try to deal with problems that
4 is bad, it's better to not	I		they knew they were incorporating by
5 bias, I acknowledge that			reevaluating using the follow-up data.
6 biggest concern is bias		6	Q. And when we talk about
7 the null because that's	-	-	retrospective studies, they also talk about
8 to spurious results. Th			the problems with prospective studies in
9 big concern. That's wh			the sentence above, "Although not affected
reproducibility crisis is			by recall bias, prospective studies tend to
about. It's artificial det			have small case numbers and simplified
of effects where none e			exposure assessments, resulting in low
13 BY MR. TISI:			statistical precision and increased
14 Q. Now, looking at the			likelihood of nondifferential exposure
15 study, O'Brien (2024), they d			misclassification." That's true, right?
16 thing, they did they dealt w	I	6	A. I mean, that's quite a
17 they did a bias analysis and the			generalization that isn't true always. You
18 recall bias analysis and they s	•		can have prospective studies
19 their main objective, true?		9	Q. They said tend to have. They
20 A. I don't see that they			didn't say always, they say they tend to
21 that.			have?
22 Q. Look at page 2 of the	he O'Brien 22	22	A. It's still a generalization.
23 study.		23	I don't know. I haven't seen this study
A. I see "Key objectiv	e, are	24	that analyzes, like, a random sample of
	Page 359		Page 361
1 history of genital talc use and	-	1	
		1	prospective studies and a random sample of
2 douching associated with bre	I		retrospective studies to determine the
	ast"	2	
2 douching associated with bre	ast"	2 3	retrospective studies to determine the
 2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 	ast" own on the ective was to etween	2 3	retrospective studies to determine the number of cases. I just want to point out,
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj	ast" own on the ective was to etween incidence of	2 3 4 5 6	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be	ast" own on the ective was to etween incidence of	2 3 4 5 6	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right.
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and	ast" own on the ective was to etween incidence of eanding on	2 3 4 5 6 7	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and utering	ast" own on the ective was to etween incidence of eanding on orating newly e cancers,	2 3 4 5 6 7 8 9	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and utering 10 adding breast cancer as an our	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and	2 3 4 5 6 7 8 9	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and utering 10 adding breast cancer as an ou 11 integrating new data on lifeting	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and me use of own on the incidence incidence of in	2 3 4 5 6 7 8 9	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher case numbers than you could if you tried to
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2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and uterin 10 adding breast cancer as an ou 11 integrating new data on lifeti 12 douche and genital talc. Beca 13 acquired exposure data were 14 differential missingness by ca 15 we used quantitative bias ana	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and me use of ause the newly susceptible to encer status, lysis to	2 3 4 5 6 7 8 9 10 11 12 13 14	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher case numbers than you could if you tried to run a prospective study, because it might take you 50 years to get that number of cases. And so, but I'm not going to accept it in general terms.
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and uterin 10 adding breast cancer as an ou 11 integrating new data on lifeti 12 douche and genital talc. Bec 13 acquired exposure data were 14 differential missingness by ca 15 we used quantitative bias ana 16 estimate effects under severa	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and me use of ause the newly susceptible to ancer status, lysis to l missingness	2 3 4 5 6 7 8 9 10 11 12 13 14	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher case numbers than you could if you tried to run a prospective study, because it might take you 50 years to get that number of cases. And so, but I'm not going to accept it in general terms. Q. Let's go to your report,
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2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and utering 10 adding breast cancer as an ou 11 integrating new data on lifeting 12 douche and genital talc. Becand 13 acquired exposure data were 14 differential missingness by cancer as an our 15 we used quantitative bias and 16 estimate effects under several 17 assumptions. When examining 18 association between genital tal 19 ovarian cancer, we additional 20 potential of recall bias," true for	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and me use of ause the newly susceptible to encer status, lysis to l missingness ng the alc use and evaluated the incertive was to extend to eactive was to eactiv	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher case numbers than you could if you tried to run a prospective study, because it might take you 50 years to get that number of cases. And so, but I'm not going to accept it in general terms. Q. Let's go to your report, page 34, paragraph 71. And you talk about the different scenarios that the authors chose to test their data for the potential of recall bias.
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2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and uterin 10 adding breast cancer as an ou 11 integrating new data on lifeti 12 douche and genital talc. Bec 13 acquired exposure data were 14 differential missingness by ca 15 we used quantitative bias ana 16 estimate effects under severa 17 assumptions. When examini 18 association between genital ta 19 ovarian cancer, we additional 20 potential of recall bias," true 21 A. That's what that page 22 says, but I want to just make	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and me use of ause the newly susceptible to ancer status, lysis to I missingness ing the alc use and evaluated the ragraph a distinction	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher case numbers than you could if you tried to run a prospective study, because it might take you 50 years to get that number of cases. And so, but I'm not going to accept it in general terms. Q. Let's go to your report, page 34, paragraph 71. And you talk about the different scenarios that the authors chose to test their data for the potential of recall bias. A. Yes. Q. And you choose a 50 percent
2 douching associated with bre 3 Q. Go to page 2, go do 4 left-hand side, "Our main obj 5 reevaluate the associations be 6 intimate care product use and 7 hormone-related cancers, exp 8 previous analyses, by incorpo 9 diagnosed ovarian and uterin 10 adding breast cancer as an ou 11 integrating new data on lifeti 12 douche and genital talc. Beca 13 acquired exposure data were 14 differential missingness by ca 15 we used quantitative bias ana 16 estimate effects under severa 17 assumptions. When examini 18 association between genital tal 19 ovarian cancer, we additional 20 potential of recall bias," true? 21 A. That's what that page	ast" own on the ective was to etween incidence of eanding on orating newly e cancers, tcome, and me use of ause the newly susceptible to ancer status, lysis to l missingness ng the alc use and evaluated the oragraph a distinction ore, they're incer state incer sta	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	retrospective studies to determine the number of cases. I just want to point out, I wouldn't really try to argue too much Q. All right. A I mean, if there are certainly situations where you have a retrospective, you choose to do a retrospective analysis because in that situation, you might be able to get higher case numbers than you could if you tried to run a prospective study, because it might take you 50 years to get that number of cases. And so, but I'm not going to accept it in general terms. Q. Let's go to your report, page 34, paragraph 71. And you talk about the different scenarios that the authors chose to test their data for the potential of recall bias. A. Yes.

	D 060		D 264
1	Page 362 MS. LEHMAN: Object to form.	1	Page 364 to miss them, isn't it?
2	THE WITNESS: So are you	2	A. It is. But, again, I believe
3	talking about in paragraph B where	3	that the reviewers must have just taken
4	I say 50 percent	4	them at face value.
	MR. TISI:	5	
		6	Q. Okay.A. And I point out in my report
	Q. Correct. A. Yeah, I wouldn't say I'm	7	why this is this is one of those, this
	osing that situation, I'm just showing		is incredibly misleading. Recall bias
	xample of		Scenario 2 in particular is kind of it's
1	Q. Do you believe that a		astounding how they present it.
	ercent recall bias number is a	11	Q. Well, let's look at one, A,
_	stic assessment of the problems in		and then let's look at B, and then we'll
	rien (2024)?		look at C.
1	A. I don't know exactly what is	14	A. Okay.
	distic assessment, but I can point you	15	Q. Scenario A has a positive
	, again, the differential recall in		risk hazard ratio even if 50 percent of the
1	e A5 is really, yes, it's that big.		cases were switched to never use, correct?
	loubling the cases in terms of	18	A. No, the point estimate of the
1	ingness at follow-up than what it is in		hazard ratio is 1.07.
20 cont		20	Q. Correct.
1	Q. And you would ignore and	21	A. It's in Table 1. That .07
	would ignore the conclusions of O'Brien		difference is way within sampling
1 -	3) that says there is not that problem		variability when you look at the width of
	ecall bias, right?		the confidence interval there from 0.81
24 0110	can oras, right.	24	the confidence filter var there from 0.61
1	Page 363 A I don't know that I'm saying	1	Page 365
	A. I don't know that I'm saying		to
2 that,	A. I don't know that I'm saying I mean, ignoring that, this is I'm	2	to Q. Right.
2 that, 3 just	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this	2 3	Q. Right. A 1.40. And you can see the
2 that, 3 just 4 pape	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this er and that level of differential	2 3 4	Q. Right. A 1.40. And you can see the line very clearly crosses 1.0
2 that, 3 just 4 pape 5 miss	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this er and that level of differential ingness is right there and it's kind of	2 3 4 5	to Q. Right. A 1.40. And you can see the line very clearly crosses 1.0 Q. Right.
2 that, 3 just 4 pape 5 miss 6 obvi	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this er and that level of differential ingness is right there and it's kind of ous.	2 3 4 5 6	to Q. Right. A 1.40. And you can see the line very clearly crosses 1.0 Q. Right. A which is a plausible
2 that, 3 just 4 pape 5 miss 6 obvi	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this er and that level of differential ingness is right there and it's kind of ous. Q. Okay. Now, in Table 2, the	2 3 4 5 6 7	Q. Right. A 1.40. And you can see the line very clearly crosses 1.0 Q. Right. A which is a plausible value.
2 that, 3 just 4 pape 5 miss 6 obvi 7 8 data	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this er and that level of differential ingness is right there and it's kind of ous. Q. Okay. Now, in Table 2, the tested data, the likelihood of recall	2 3 4 5 6 7 8	Q. Right. A 1.40. And you can see the line very clearly crosses 1.0 Q. Right. A which is a plausible value. Q. Okay. Now, let's look at
2 that, 3 just 4 pape 5 miss 6 obvi 7 8 data 9 bias	A. I don't know that I'm saying I mean, ignoring that, this is I'm looking at the data that's in this er and that level of differential ingness is right there and it's kind of ous. Q. Okay. Now, in Table 2, the tested data, the likelihood of recall uses several recall bias scenarios,	2 3 4 5 6 7 8 9	Q. Right. A 1.40. And you can see the line very clearly crosses 1.0 Q. Right. A which is a plausible value. Q. Okay. Now, let's look at 25 percent. If they take 25 percent of the
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	D 266
1 the recall bias of Scenario 3 is zer	Page 366 Page 3 Page 3 Page 3
2 they come up with that estimate the	
3 Q. Let's talk about them or	
4 a time. Okay?	4 you're specifically referring to the
5 A. Okay.	5 25 percent recall bias level associated
6 Q. What they're saying her	
7 A. No, because these thing	
8 don't exist one at a time	8 A recall bias Scenario 1,
9 Q. I understand. We'll talk	
10 about it in	10 this adjustment is conditional on accepting
11 A they're in combinatio	
12 Q. Doctor, we'll talk about	
13 in total.	13 it states even if Scenario 4 is inflated
14 A. The total here that	14 and we take 25 percent of the cases and
15 Q. Doctor, Doctor, we'll ta	
16 about it in total, I promise you. I'	
17 just got to get I can only ask on	1 ^
18 question at one time. So give me	
19 to get through the whole thing and	
20 your opinions because I want to k	
21 they are. Okay?	21 of recall bias that comes from their
22 A. Okay.	22 correction procedure. And so when you
23 Q. Scenario 1, they say if y	
24 take 25 percent of the cases that v	
24 take 25 percent of the cases that v	24 you're not really correcting 25 percent,
1 commuted and Electrote has seen	Page 367 Page 3
1 computed are likely to be cases, a	and we're 1 you're correcting less.
2 going to switch them to never use	nnd we're 1 you're correcting less. ers, we're 2 Q. Okay. In Scenario B, they
2 going to switch them to never use3 going to take user and switch then	and we're 1 you're correcting less. 2 Q. Okay. In Scenario B, they 3 say that even if you accept 75 percent of
2 going to switch them to never use3 going to take user and switch them4 users, there's still a positive risk re	and we're ers, we're m to never atio 1 you're correcting less. 2 Q. Okay. In Scenario B, they 3 say that even if you accept 75 percent of 4 the cases and you reassign them, short-term
 2 going to switch them to never use 3 going to take user and switch then 4 users, there's still a positive risk r 5 of 40 percent, correct, 41 percent 	and we're 2 Q. Okay. In Scenario B, they 3 say that even if you accept 75 percent of 4 the cases and you reassign them, short-term 5 users or frequent users to never use, you
 2 going to switch them to never use 3 going to take user and switch then 4 users, there's still a positive risk r 5 of 40 percent, correct, 41 percent' 6 A. That's point estimate, it 	1 you're correcting less. 2 Q. Okay. In Scenario B, they 3 say that even if you accept 75 percent of 4 the cases and you reassign them, short-term 5 users or frequent users to never use, you 6 still have an increased risk of 1.34,
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24 would be around about 1.1. And totally not

A.

What --

24

Page 372 Page 370 1 statistically significant. 1 infrequent users, you'd have to get almost 2 Doctor, there were not 50,000 2 between 15 or 20 percent of those to do O. 3 ovarian cancer --3 that as well, right? 4 Seven individuals, seven. 4 If they were the only kind of A. 5 There are not 50,000 ovarian 5 recall bias, which I'm pretty sure the O. 6 authors are not claiming that this is the 6 cancer cases in the Sister Study, are 7 there? 7 major source of recall bias, I think that 8 I agree with you. The 50,000 8 would be Scenario A. But if this was the 9 example was to start with --9 only source of recall bias, you would need 10 O. Okay. There's 250 cases --10 a lot to make a really big difference. But 11 as we said earlier, these don't come on 11 A. Right. Doctor --12 their own, so like the Scenario B recall 12 O. 13 A. All right. Seven people out 13 bias, add that onto the Scenario B --14 of 250. You switch their status, your 14 Scenario C and it's just something -- just 15 results are gone, it's disappeared. 15 a few from Scenario B that you flip, and a Let's compare -- let's 16 bit of Scenario C, a bit of Scenario A and 16 17 compare apples to apples. That statement 17 your results just more than disappeared, 18 about 50,000 people compared to seven 18 which was doubling inflated in the first --19 people was misleading, was it not? 19 no, doubling -- again, perhaps late in the 20 MS. LEHMAN: Object to form. 20 day, I shouldn't use that, let's be 21 21 precise, it was an extra inflated hazard Argumentative. 22 BY MR. TISI: 22 ratio in the first place that you get from 23 50,000 -- there were 50,000 23 Scenario 4 and now with these, you've Q. 24 people in the study, only 250 people had 24 really got these different kinds of recall Page 371 1 ovarian cancer, correct? 1 bias in combination and it wouldn't take 2 I agree that I should have 2 much to make it disappear --3 just used the ovarian cancer number, then 3 So let me --Q. 4

- 4 whatever at this point.
- 5 Q. Thank you.
- 6 A. I'm trying to -- it's late in
- 7 the day --
- 8 I understand, me too. Q.
- 9 I will say that still seven
- 10 out of 250 is a very small proportion, such
- 11 that when you're running a sensitivity
- 12 analysis and your result disappears with
- 13 changing as few as a handful of your
- 14 participants. I mean, this is why we do
- 15 sensitivity analysis, we look to see do our
- 16 results stand the test if we just -- how
- 17 much are we relying on our models, our
- 18 assumptions, and so on, because we really
- 19 don't want to make statements that are,
- 20 like, so easily manipulated to disappear.
- 21 And if you look at section --
- 22 if you look in Scenario 3, if they take
- 23 people who are non-cases and kind of test
- 24 them and throw them into the short-term or

- Just again, my report, my --
- 5 the central statement in my report is that
- 6 they're not showing a reliable association
- 7 between talc use and ovarian cancer and
- 8 this kind of demonstrates that it's not
- 9 reliable. Even if you accepted their
- 10 Scenario 4, you can play with these
- 11 scenarios and as many as they came up with
- 12 that retain a hazard ratio, I can come up
- 13 with a whole new set where the hazard ratio
- 14 becomes statistically insignificant and
- 15 disappears.
- 16 O. So in the editorial that
- 17 accompanied this, they address that
- 18 question, don't they? Let's go back to
- 19 Exhibit No. 6, which is the Harris, Terry,
- 20 Davis editorial?
- 21 I'm going to ask you for
- 22 my -- I understand we're in the middle of
- 23 towards the question and I'm happy to sort
- 24 of answer this, but then if we could have a

Page 374 Page 376 1 break again. 1 risks based upon the misclassification 2 No question, and just to give 2 scenario provided, this editorial asks that 3 you a sense, I'm kind of -- there's one 3 the reader do that? Did you do that? 4 area I want to cover that's separate from 4 I don't think it asks the 5 this, but I want to get through the recall 5 reader to do that. They say the reader can 6 bias issue and so if you give me some 6 do that if they want to. 7 leeway here, I'll give you some leeway as 7 Q. Did you do that? 8 8 well. Okay? That would be based on all of 9 9 the assumptions that O'Brien has taken in A. Okay. Then maybe can you 10 just give me 15 seconds to get some water, 10 her correction, manipulation, imputation 11 because I feel my mouth dry --11 approaches ---Of course. 12 Did you do that? 12 O. Ο. 13 A. Okay. 13 A. -- before getting to the 14 Q. Actually, let's take it now. 14 recall bias. 15 I don't mean for you to be uncomfortable 15 Q. Did you do that? 16 for sure. I just want to get you to bed. I think I just described to 16 17 A. Okay. Thank you. 17 you examples of that, like, flipping seven 18 Q. It's late over there. 18 people would change the result and so 19 19 forth. I think we went through that whole Yup, much appreciated. A. 20 20 thing of when it would versus when it 21 21 wouldn't. Yeah, and again, I'm looking for (A recess was taken at this time.) 22 22 something that will indicate that there's 23 reliability in the result. 23 BY MR. TISI: 24 Looking at the next page, it 24 Dr. Kornak, going to Exhibit Page 375 Page 377 1 No. 6, the fourth paragraph down. 1 says "Given that ovarian and uterine 2 A. Yes. 2 cancers are both gynecologic cancers and 3 Okay. It says "After 3 the reported association with one but not 4 accounting for potential biases or O'Brien 4 the other may not be appreciated by the 5 et al. report a significant increase in 5 general population, one could expect them 6 ovarian cancer for genital powder use, with 6 to be similarly affected by recall bias. 7 effect estimates that are in range of 7 Thus, the lack of association between 8 previous studies." 8 genital use and uterine case provides 9 additional report that recall bias does not Going down to the end, it 10 says "While the degree of bias is unknown, 10 fully explain the genital powder and 11 the reader can make their own assessment 11 ovarian cancer association." 12 about the reasonable range of realistic 12 Do you agree or disagree 13 risks based upon the misclassification 13 with that? 14 scenarios provided. In this paper, even 14 A. I disagree with that. 15 with misreporting of the exposure in half 15 Why? Q. 16 the cases, a significant increase in So if you want to go back to 16 17 ovarian cancer risk is still observed, 17 O'Brien -- no, there's a couple of reasons. 18 adding support to the plausibility of a 18 I mean, in terms of the mechanism for 19 true association between genital powder use 19 recall bias, my understanding is that the 20 and ovarian cancer." 20 stories were about -- the reporting was 21 21 about genital talc use and ovarian cancer. Do you see that? 22 I don't recall ever seeing anything about 22 Yeah, I see that. A. 23 douching, maybe there was. But that's not Q. Have you made an assessment 24 about the realistic range of realistic 24 my main point.

Page 378 Page 380 1 My main point here is if you 1 again, the main message I wanted to say is, 2 look at -- actually, I have a couple of 2 like, the differential recall is there 3 main points. Let me start with the 3 baked in the data, you see it in --4 straightforward one, if you look at row 4 4 My question is in paragraph 5 of table A5. 5 number 25, you say that this study is Q. 6 inconsistent with their prior work. If you Uh-huh. 7 would go to that page, that paragraph. 7 A. So I'm just going to the data 8 here, I'm not relying, not ascribing the 8 Yeah, I'd say that's a 9 mechanism or anything, but if we look at 9 general kind of statement that --10 the differential recall, again, in the 10 O. Let's --11 genital talc column, overall 19 percent. -- the prior prospective 11 12 You look at uterine cancer, the cases, 12 work --13 20 percent. Barely any differential recall 13 O. Let's look at them, if you 14 there. You look at postmenopausal breast, 14 don't mind? 15 21 percent. Barely any differential recall 15 Α. Oh, sure, yeah. 16 there. I mean it's not nothing, but it's If you would go to the 16 17 small. 17 Gonzalez study again. You say Gonzalez 18 You look at the 18 finds a hazard ratio of .73. 19 premenopausal breast cancer, that's a 19 Do you see that? 20 little bit higher at 27, but it's still 20 I say that they estimate a 21 very small compared to the difference 21 hazard ratio. 22 between 37 and 19. That differential 22 Q. That wasn't for lifetime use, 23 recall is massive. 23 was it? 24 24 So why -- why -- I gave you Sorry? Page 379 Page 381 1 one possibility as to why there's that 1 Q. That wasn't for lifetime use, 2 difference, that the bigger stories were 2 was it? 3 about talc use and ovarian cancer rather 3 That was for -- I don't know 4 than douching, but it's here in the data. 4 to the extent that -- I mean, the question 5 The differential recall is clearly there in 5 they asked their participants was whether 6 O'Brien's own data that is much bigger in 6 they used between the ages of 10 to 13 or 7 ovarian cancer than the other types. 7 in the last 12 months. To the extent that I'm going to ask you a couple 8 that's representative of lifetime use, 9 of questions related to your paragraph 9 that's what this hazard ratio represents. 10 number --10 They say if you go to the 11 end, the last sentence on page 7, they say I want to finish with, sorry, 12 it's going to take me a second to just find 12 on page 7, it says "In this large, 13 the third piece that I wanted to -- so, for 13 prospective study, we did not observe an 14 example, I think Table 2, if we look at 14 association between recently talc use and 15 uterine cancer, it goes on to the next 15 ovarian cancer." Do you see that, not 16 page. No, it's not that there's no -- the 16 lifetime use? 17 recall bias is definitely not there. As 17 A. Well, the definition includes 18 you go from Scenario 1 to Scenario 2, it 18 10 to 13, so I don't know that -- that may 19 states that -- but then it does increase 19 or may not be recent for --20 with Scenario 3. It's a very small 20 O. Well, they talk about 10 to 21 increase with Scenario 4 there. I mean, 21 13, they didn't have a lot of data, it was 22 it's negligible. It goes from .98 to 1.01. 22 mostly the year, the year before that they

23 had data. So they talked about recent use,

24 correct?

23 So there may be a slight of recall bias. I

24 don't know that it's zero there. But,

1

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A. I don't recall -- I don't

2 recall them saying that they only have data

- 3 on the last year, but not on 10 to 13. Can
- 4 you point me to where that is?
- Q. Well, in any event, because
- 6 I'm trying to wrap this up, they talk
- 7 about -- they talk about that this is an
- 8 association between recent use and, of
- 9 course, O'Brien (2025) [sic] talks about
- 10 lifetime use, right?
- 11 A. In this paper, they do use
- 12 the term "recent talc use." In O'Brien
- 13 (2024), not '25, we're not there yet. In
- 14 2024, they do say they're examining
- 15 lifetime use.
- 16 Q. The next one is O'Brien
- 17 (2020), that's Exhibit 25 in your book.
- 18 A. Yes.
- 19 Q. Okay. In this study, they
- 20 make clear that looking at women with
- 21 patent tubes is an important subgroup to
- 22 look at?
- A. Okay. Do you want to point
- 24 me to the section?

- Page 383
- 1 Q. Sure. They talk about on
- 2 page 51, it says on the right-hand side, it
- 3 says "Because patency is required for there
- 4 to be a direct physical pathway between the
- 5 powder application area and the ovaries, we
- 6 hypothesized a priori that women with
- 7 patent reproductive tracts would be more
- 8 susceptible to the effects of powder use in
- 9 the genital area on ovarian cancer. We
- 10 therefore conducted analyses restricted to
- 11 this subgroup. When estimating the effects
- 12 of duration of powder on ovarian cancer
- 13 risk, we compared long-term, greater than
- 14 20 years, and non-long-term users with
- 17 20 years, and non rong ter
- 15 never users."
- Do you see that?
- 17 A. Yes.
- 18 Q. Okay. And if you look at the
- 19 data when they looked at women with intact
- 20 tubes on Table 2, the overall risk ratio
- 21 was 1.13 with a hazard -- with a confidence
- 22 interval that does not cross one, correct?
- A. Table 2? So in the pooled
- 24 estimate, yes, what you're highlighting

- 1 there is an adjusted hazard ratio of 1.13
 - 2 that goes from 1.01 at the lower end of
 - 3 plausible values through to 1.26. But I
 - 4 would caution in the interpretation of that
 - 5 is if I was working with anybody on a
 - 6 project where their confidence interval
 - 7 went down that low, I would want them to be
 - 8 able to deal with does that reach a
 - 9 clinically significant level. Could it be
 - 10 due to any biases or assumptions or model
 - 11 assumptions or a reverse error results
 - 12 robust to that lower confidence interval
 - 13 that we really want to make the claim that
 - 14 we have a statistically significant result.
 - 15 And, in this case, I know I
 - 16 already was suspicious, this is -- being a
 - 17 combination of studies, you're always
 - 18 subject to publication bias inflating
 - 19 hazard ratios. And then you in addition
 - 20 earlier in this deposition pointed out to
 - 21 me that one of the studies was actually
 - 22 using retrospective information. So then
 - 23 there's recall bias in there. So then I
 - 24 would not want to rely on that 1.01 being
 - Page 385
 - 1 genuinely above one. So this is --
 - Q. But this is in the section
 - 3 where you say that the results of the 2024
 - 4 were inconsistent with the results of her
 - 5 prior studies. We demonstrated that
 - 6 Gonzalez was only looking at recent talc
 - 7 use, correct? And now we're looking at
 - 8 O'Brien (2020), which talks about a
 - 9 statistically significant increased risk in
 - 10 cohort data using prospective data, which
 - 11 in women who did not have hysterectomy,
 - 12 true?
 - 13 A. I think that's not quite
 - 14 true. You already told me that part of
 - 15 this is retrospective --
 - 16 Q. No, not this part --
 - 17 A. Well, the consistency should
 - 18 be compared against the Sister Study and if
 - 19 we look at the, you know, across the
 - 20 studies, you can see that the hazard ratios
 - 21 here are --
 - 22 O. Doctor --
 - A. -- far from being
 - 24 statistically significant from one, but

	D 200		D 200	
1	Page 386 this is what I was it's my	1	Page 388 bring it up on the screen. Can you go to	
2	Q. In your report, in your	1	where she's one of the authors, she and	
3	report?		Dr. Wentzensen are one of the authors of	
4	A report that I was writing	4	this paper. It says "In the largest	
5	about, it was inconsistent.	5	prospective study so far, the OC3 found a	
6	Q. I'm not fussing	1	very small positive association between	
7	A. In a hazard ratio estimate of	7		
8	1.84 is inconsistent with one at 1.13. In	8	among all women, 1.08, as well as among	
9	fact, it's inconsistent with the whole	1	9 women with intact uterus and fallopian	
10	confidence interval by a factor of four.		tubes, 1.13."	
11	Q. You know that	11	Isn't it true, Doctor, when	
12	A. So	12	they describe the results of 2024 I'm	
13	Q. You know that Dr. O'Brien	13	sorry, 2020, they see a positive	
14	has said, because you looked at her	14	association in the pooled study of cohorts?	
15	response to the letter to the editor, she	15	A. Well, that has a duration of	
16	has said that she thought that the actual	16	1.08 is a point estimate, it's not	
17	risk was greater than 1.13, correct?	17	statistically significant that	
18	A. I don't recall her saying	18	Q. Right, but	
19	that. I don't dispute that she did.	19	A. The confidence interval has a	
20	Q. Okay. And you know that in		plausible value of one and the	
	her in subsequent publications, she		confidence interval crosses one, it has a	
	agreed that there was a positive	1	plausible value of .99 or one.	
	association, true, even in her 2020 study?	23	Q. Right. And then they say	
	A I'm not curo I'vo known	124	taken into context with the ovarian cancer	
24	A. I'm not sure I've known	2-	taken into context with the ovarian cancer	
	Page 387		Page 389	
1	Page 387 her I remember seeing somewhere that	1	Page 389 with the women with patent tubes, there's a	
1 2	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere	1 2	Page 389 with the women with patent tubes, there's a positive association consistent with an	
1 2 3	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about	1 2 3	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true?	
1 2 3 4	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time.	1 2 3 4	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's	
1 2 3 4 5	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit	1 2 3 4 5	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point	
1 2 3 4 5 6	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you	1 2 3 4 5 6	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a	
1 2 3 4 5 6 7	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement	1 2 3 4 5 6 7	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes.	
1 2 3 4 5 6 7 8	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that	1 2 3 4 5 6 7 8	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence	
1 2 3 4 5 6 7 8 9	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association	1 2 3 4 5 6 7 8 9	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just	
1 2 3 4 5 6 7 8 9 10	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's	1 2 3 4 5 6 7 8 9	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not	
1 2 3 4 5 6 7 8 9 10	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association.	1 2 3 4 5 6 7 8 9 10	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here	
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association. I'm just saying that there's no reliable demonstration of a positive association. Q. Let's look, this is in a section where you're talking about her conclusion of a positive association in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here given that the lower end is 1.01 Q. And we will A which is entirely subject to assumptions. But I also, I'm not sure what data goes into this analyses and	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association. I'm just saying that there's no reliable demonstration of a positive association. Q. Let's look, this is in a section where you're talking about her conclusion of a positive association in O'Brien (2024) is inconsistent with her	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here given that the lower end is 1.01 Q. And we will A which is entirely subject to assumptions. But I also, I'm not sure what data goes into this analyses and whether there's retrospective components or	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association. I'm just saying that there's no reliable demonstration of a positive association. Q. Let's look, this is in a section where you're talking about her conclusion of a positive association in O'Brien (2024) is inconsistent with her prior studies. So let's look at Exhibit	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here given that the lower end is 1.01 Q. And we will A which is entirely subject to assumptions. But I also, I'm not sure what data goes into this analyses and whether there's retrospective components or not and the potential for recall bias, so I	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association. I'm just saying that there's no reliable demonstration of a positive association. Q. Let's look, this is in a section where you're talking about her conclusion of a positive association in O'Brien (2024) is inconsistent with her prior studies. So let's look at Exhibit No. 13, if you would. It's an exhibit we	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here given that the lower end is 1.01 Q. And we will A which is entirely subject to assumptions. But I also, I'm not sure what data goes into this analyses and whether there's retrospective components or not and the potential for recall bias, so I just want to	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association. I'm just saying that there's no reliable demonstration of a positive association. Q. Let's look, this is in a section where you're talking about her conclusion of a positive association in O'Brien (2024) is inconsistent with her prior studies. So let's look at Exhibit No. 13, if you would. It's an exhibit we looked at before and if you go to can	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here given that the lower end is 1.01 Q. And we will A which is entirely subject to assumptions. But I also, I'm not sure what data goes into this analyses and whether there's retrospective components or not and the potential for recall bias, so I just want to Q. So you don't know?	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 387 her I remember seeing somewhere that she's, you know, if we want to go somewhere specific, I know you're concerned about time. Q. Let's do that, exhibit A. But I know she said that, you know, that in her response to a statement that she isn't wasn't ruling out that there is a possible positive association I'm not making that claim that it's impossible there's a positive association. I'm just saying that there's no reliable demonstration of a positive association. Q. Let's look, this is in a section where you're talking about her conclusion of a positive association in O'Brien (2024) is inconsistent with her prior studies. So let's look at Exhibit No. 13, if you would. It's an exhibit we	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 389 with the women with patent tubes, there's a positive association consistent with an association, true? A. So in that case, there's we're referring to the hazard ratio point estimate of 1.13 there with a Q. Yes. A 5 percent confidence interval of 1.01 to 1.26. Again, I just would be very cautious about whether or not I wanted to say that we have a result here given that the lower end is 1.01 Q. And we will A which is entirely subject to assumptions. But I also, I'm not sure what data goes into this analyses and whether there's retrospective components or not and the potential for recall bias, so I just want to	

24

23 give you a better answer.

I understand, but you don't

23 I believe, and this document is not

24 paginated, so if you want to try to just

Page 390	Page 392	
1 have an opinion right now? I mean, they 2 are saying, they know their own data and	1 of .91 to 1.24 and you refer to the 2 appendix S4.	
3 they say there's a positive association	3 Do you see that?	
4 particularly in women with patent tubes and	4 A. On the screen at the moment	
5 that's a positive association, true?	5 is the paper itself. I'm referring to the	
6 A. Yeah, but I think you	6 appendix.	
7 started well, it's one point	7 Q. Now, if you go to the 21, if	
8 Q. That's what they say?	8 you don't mind, on page 21, because I have	
9 A. As a point estimate, it's a	9 that up here. It says this is the chart S4	
10 positive association. But in the same way	10 and it says "Association between	
11 as case-control studies, if there's any	11 one-frequency category increase in use of	
12 recall bias in there that's statistically	12 single personal care product, breast,	
13 significant, it's so on the boundary. I	13 ovarian, uterine cancer using Cox	
14 explained before, if that happened in a	14 proportional hazards models."	
15 study I was involved in, and that was, we	15 Do you see that?	
16 considered that to be a central result of	16 A. Okay, I've got the table,	
17 the study, I would I would pull all the	17 yes.	
18 stops out to do every kind of sensitivity	18 Q. And actually if you go to the	
19 analysis I could and question any potential	19 next page is where you see at the top, you	
20 sources of bias that could be meaning to	20 see the number that you pull out, which is	
21 you to have that marginal	21 1.0. Talc vaginal use, I think you have	
22 Q. Of course, you didn't even	22 1.07 with a .94, 1.23.	
23 know about the ovarian	Do you see that?	
24 A. Again, going back to your	24 A. Yes.	
Page 391	Page 393	
1 earlier question, you were relating to	1 Q. Okay. But that's in	
2 whether or not it was consistent with	2 relationship to what they call that's	
2 O'Drian (2024) The O'Drian (2024)		
3 O'Brien (2024). The O'Brien (2024)	3 not the overall risk ratio, that is a	
4 preferred analysis, they're talking about a	3 not the overall risk ratio, that is a 4 one-frequency category increase, correct?	
	· ·	
 4 preferred analysis, they're talking about a 5 hazard ratio of 1.84. They're not talking 6 about 	4 one-frequency category increase, correct?	
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D 204	P 200	
Page 394 1 A. No.	Page 396 1 making some big assumption, it was that I	
2 MS. LEHMAN: Object to form.	2 didn't	
3 BY MR. TISI:		
	Q. Well, your report	
4 Q. Well, it says "Although the	4 A read the totality of this	
5 observed effects of a one-frequency level	5 particular paper.	
6 increase was modest in magnitude, the	6 Q. In your report, just to be	
7 impact would be more substantial when	7 clear, your report says Chang uses data	
8 comparing the most frequent users with	8 from the Ovarian Cancer Institute, 2003 to	
9 never users. For example, an 8 percent	9 2020, the estimate and HR summarizes the	
10 higher hazard of postmenopausal breast	10 association between genital talc and	
11 cancer for one-frequency level increase in	11 ovarian cancer is 1.06. That's what you	
12 the beauty mixture could translate to	12 assumed and that's not true, is it?	
13 approximately a 36 percent higher hazard	A. I said that's not completely	
14 ratio for the most frequent users compared	14 untrue, it's a 1.06 association.	
15 to never users."	15 Q. It's one-level increase and	
Do you see that?	16 for more frequent users in this data, it's	
17 A. I do see that.	17 approximately 30 percent, correct?	
18 Q. Okay. So if ours is you	MS. LEHMAN: Object to form.	
19 talk about a 1.06, here is a one point	19 THE WITNESS: Well, okay.	
20 they're using an 8 percent ratio and	Like I said, there was quite a bit	
21 they're talking about if you add the	21 to unpack there. That 36 percent	
22 numbers together or multiply them the way	doesn't come with a confidence	
23 you should, if it was more frequent user,	interval. That confidence interval	
24 that number would be close to 30 percent,	could be because there would be	
Page 395	Page 397	
1 right, for talc users?	less data go into that, it could be	
A. Okay. So there's quite a bit	2 much wider. An 8 percent, of	
3 to unpack there. I still would like to	3 course, not everybody who is a user	
4 know what the definition is of a	4 is in that category. So on	
5 one-frequency level change.	5 average, users versus nonusers	
6 Q. You relied on this paper, you	6 would likely be somewhere in	
7 don't know?	7 between those estimates. I don't	
8 A. No, I don't recall.	8 know where in between those	
9 Q. Okay. And so	9 estimates.	
10 A. I haven't read it completely,	10 BY MR. TISI:	
11 if I may have misread what was meant in the	11 Q. Okay. But you, actually,	
12 table. I found the results of the table, I	12 misread the	
13 reported it, but I obviously missed	13 MS. LEHMAN: Hold on. Hold	
14 Q. You assumed that that was the	on. He wasn't done. He's still	
15 overall risk ratio, didn't you?	15 answering.	
16 MS. LEHMAN: Object to form.	16 THE WITNESS: So all I'm	
17 BY MR. TISI:	17 saying is there's a lot of	
18 Q. You assumed that was the	18 uncertainty. I acknowledge that in	
19 overall hazard ratio, didn't you?	19 my report it would have been better	
20 A. I don't recall exactly what I	to say that that hazard ratio was	
<i>3</i>	21 associated with a one-level	
21 was thinking, but I would not say that I		
22 didn't I may have, I may have looked at		
23 that and thought it was, whether I was	23 BY MR. TISI:	
24 the reason I was mistaken wasn't that I was	Q. And could be higher, right?	

1	Page 398	1	Page 400 unreliable	
	1 And could be as much as 30 percent, which			
1	2 is consistent with all the other studies		Q. Their study from 2024 I'm	
	that were out there, right?	3 sorry, let me rephrase the question. You		
4	MS. LEHMAN: Object to form.	4	disagree with the NIH scientists who	
5	THE WITNESS: No, I mean,	5	published in O'Brien (2024) a study that	
6	it's it might be consistent with	0	appeared in the peer-reviewed literature	
7	many case-control studies out there	/	regarding the likelihood of recall bias	
8	to be around 30 percent. But		affecting the Sister Study cohort, you	
9	certainly not consistent with		disagree with them, true?	
10	cohort studies and never not with	10	A. I would rephrase it and say	
11	prospective cohort studies.		that I have, as I've expressed in my	
12	(0. 1.16.4.1.)	12	report, I have I disagree with	
13	(Stenographer clarification.)	13	assumptions and approaches taken in O'Brien	
14		14	(2024) and that I have problems with their	
15	THE WITNESS: And not		manipulation, correction, imputation	
16	consistent with cohort studies and	16	approach to	
17	certainly not consistent with	17	Q. And you think that the peer	
18	prospective cohort studies. I		reviewers, you think the peer reviewers who	
19	think that's my best guess at what		looked at this paper didn't understand or	
20	I said.		missed the obvious flaws in this study,	
21	BY MR. TISI:		true?	
22	Q. Can you	22	MS. LEHMAN: Object to form.	
23	A. So, it's actually midnight	23	Asked and answered.	
24	here, I mean I don't know how much	24	THE WITNESS: They missed,	
	Page 399		Page 401	
1	longer	1	didn't understand, didn't dig into	
2	Q. I'm going to wrap it up.	2	reviews, I don't know. I can't	
l .	I've got about four or five questions and	3	comment on what was in their minds.	
	if you'll answer them directly, I'll be	4	What I can comment on is that those	
	done.	5	flaws exist in the paper, these	
6	A. I can't guarantee that, but	6	problems exist in the paper, and	
	I'll do my best.	7	the paper did get through peer	
8	Q. All right. We agreed that	8	review, so.	
l	before May 20, 2024, when you met with the		BY MR. TISI:	
	J&J lawyers, you had never looked at the	10	Q. And you disagree with	
	•		scientists like Harris and Terry who were	
12	MS. LEHMAN: Object to form.		invited to do an editorial, who thought	
13	THE WITNESS: If I saw it in a		that recall bias does not explain the	
14	news article somewhere, I may have	14	genital powder and ovarian cancer	
15	noted it in my brain, but I did not	15	association, correct?	
16	research it and look into it.	16	MS. LEHMAN: Objection. Asked	
17	BY MR. TISI:	17	and answered.	
18	Q. And in your report, you	18	THE WITNESS: I disagree with	
	disagree and call unreliable NIH scientists	19	their conclusion about the O'Brien	
	who not only published O'Brien (2024) in a	20	(2024) paper. I disagree with	
	peer-reviewed journal, but multiple studies	21	their general conclusions. I	
	1	22	believe that the paper does not	
l	Sister Study, correct?	23	reliably demonstrate an association	
24	A. I do not call NIH scientists	24	between talc use and ovarian	

	Page 402		Page 404	
1	cancer.	1	lawyers, correct?	
$\frac{1}{2}$			MS. LEHMAN: Object to form.	
3			THE WITNESS: The only place I	
			have written down my opinions is in	
5		5	the report.	
6		6	BY MR. TISI:	
	rigorous adjustments for bias that may have	7	Q. Which you started three days	
8	•		•	
	C	8 9	after meeting Johnson & Johnson's lawyers, true?	
9	with them as well, correct?	10		
10	MS. LEHMAN: Objection. Asked		MS. LEHMAN: Object to form.	
11	and answered.	11		
12	THE WITNESS: I disagree with	12	that's that after, you know,	
13	their statement. I'm not, like,	13	many hours of reviewing the paper,	
14	looking to disagree with them as	14	I started drafting, yeah, within	
15	individuals. I'm not just making	15	three days.	
16	up disagreements. My report was		BY MR. TISI:	
17	about the paper. I explicitly	17	Q. And you never sought and do	
18	state the problems of the paper. I		not intend to seek to publish your findings	
19	explicitly state why there are		or your conclusions outside the courtroom,	
20	problems. I don't see anywhere	20	true?	
21	where in any of those editorials	21	A. Yeah, I have no intention of	
22	that you describe that they go into	u describe that they go into 22 doing that.		
23	those details in any way. I don't	Q. Okay. And the opinions that		
24	see anywhere they do that. 24 you've given in this case, you have		you've given in this case, you have been	
	Page 403		Page 405	
1	BY MR. TISI:	1	paid and will be paid over \$100,000, true?	
2	Q. And you disagree with the	2	MS. LEHMAN: Object to form.	
3	NIH, which said the bias analysis was	3	THE WITNESS: For writing my	
4	rigorous and the study provides compelling	4	report, for reading materials, for	
5	evidence of genital talc use is associated	5	preparing for deposition, for all	
6	with an increased risk of ovarian cancer,	6	of the time I've spent in putting	
7	you disagree with them as well, right?	7	together my independent assessment	
8	MS. LEHMAN: Object to form.	8	of O'Brien (2024) and related	
9	Asked and answered.	9	materials, yes, the total comes to	
10	THE WITNESS: It's not about I	10	over 100,000.	
11	disagree with their conclusion,	11	BY MR. TISI:	
12	but, again, there's no particular	12	Q. And you were located in this	
13	aspect where they've gone into the		case through a headhunter called	
14	details of what I've argued with		Cornerstone, because you had been involved	
15	they're saying there's something I		in other cases going back almost ten years	
16	said that's incorrect. They don't		as a litigation expert for law firms, true?	
17	go into the details. So there's	17	MS. LEHMAN: Object to form.	
18	kind of	18	Asked and answered. And you're now	
	BY MR. TISI:	19	at seven hours and one minute, so	
20		20	this is the last question.	
1	Q. And the only and the only		•	
	place that you have ever expressed your	21	THE WITNESS: Cornerstone is a	
	opinion was in your report that you	22	company. I don't know that I would	
	authored, that you started writing three	23	describe them as headhunters. And,	
24	days after receiving the study from the	24	like I say, and I've said before, I	

	Page 406		Page 408	
1	don't know the details of the	1	took the same approach.	
2	operation of the company. They did	Tr.		
3	approach me. I don't have any			
4	relationship with them that goes	4 same biostatistical tools that you use in		
5	back ten years. They contacted me	5	your everyday work and that you teach to	
6	and asked me about the case and	6	your students?	
7	whether I would be willing to take	7	3	
8	a look at O'Brien (2024) and	8	THE WITNESS: Yes.	
9	consider providing an independent		BY MS. LEHMAN:	
10	assessment.	10	Q. I'm sorry, Dr. Kornak, I	
1	BY MR. TISI:	11	•	
12	Q. And be an expert in	12	answer?	
1	litigation?	13	A. Yes.	
14	MS. LEHMAN: You don't need to	14	Q. And do you hold the opinions	
15	answer that. Counsel's time is		that are set out in your report to a	
16	over.		reasonable degree of scientific certainty?	
17		17	A. Yes.	
18	MR. TISI: I disagree. You're going to instruct him not to answer	18		
19			Q. Okay. Have you used multiple imputation in your publications, in the	
	that question?		- · · · ·	
20	MS. LEHMAN: Counsel, you have		studies that have been published?	
21	asked this question.	21	A. Yes, I'm sure I have, but I	
22	MR. TISI: You're going to		would struggle right here right now to say	
23	instruct him		which ones.	
24	MS. LEHMAN: I'm telling you,	24	Q. Okay. You talked to counsel	
1	Page 407	1	Page 409	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	your time is up. MR. TISI: Because I disagree.	2	earlier about something that I think you called Bayesian analysis; is that correct?	
3	So are you going to tell him not to	3	A. Uh-huh.	
4	answer that question?	4	Q. Okay. And what is is	
5	MS. LEHMAN: I am. I am.	5	there a relationship between Bayesian	
6	MR. TISI: Okay. Have a good		analysis and imputation?	
7	day, Dr. Kornak. Good evening.	7	A. Yes, there is. Kind of like	
1	BY MS. LEHMAN:			
			a Bayesian analysis involves having you can build in observed variables and	
9	Q. All right. Dr. Kornak, I		unobserved variables. And the unobserved	
1	have a few questions for you. Dr. Kornak,			
11	are your opinions in this case fully set		variables would be, you consider missing	
	out in your report? A. Yes.		data to be unobserved variables within a	
13			Bayesian analysis. So they are very much	
14	Q. And are the opinions that you		related.	
	express in your report, have you done and	15	Q. Okay. And is Bayesian	
1	performed the same types of analysis that		analysis an approach of statistical	
17			inference?	
18	of the courtroom?	18	MR. TISI: Objection.	
10	MR. TISI: Objection.	19	THE WITNESS: It's an approach	
19		20	of statistical modeling and	
20	THE WITNESS: These are the			
20 21	same kind of approach I take to	21	inference.	
20 21 22	same kind of approach I take to reviewing papers that I'm involved	21 22	BY MS. LEHMAN:	
20 21	same kind of approach I take to	21 22 23		

1	Page 410	1	Page 412
	you've done as a biostatistician in your	1	A. I would need to remind myself
	years as a professor, does O'Brien (2024)	2 of it exactly where that is.	
	show an association between genital talc use and ovarian cancer?	3	Q. Sure. No problem. And I
		4	think you have O'Brien (2023) with you.
5	MR. TISI: Objection.)	It's in the notebook at tab 16. And if you
6	THE WITNESS: No, they do not	l	
7	show an association.	7	the word discussion.
8	BY MS. LEHMAN:	8	A. Yes.
9	Q. Okay. Based on your	9	Q. Okay.
	education, your training, your work as a	10	A. Yes, so it talks about the
	biostatistician, your years as a		trend being reversed among those with
	professor actually, strike that. Let me		intervening ovarian cancer diagnosis with
1	ask a different question.	l .	28 percent self-reporting genital talc use
14	Does O'Brien (2024)		at enrollment and 33 percent reporting
	specifically state that their results do		genital talc at the follow-up
1	not establish causality and do not	l	questionnaire.
	implicate any specific cancer-inducing	17	Q. And then to move on
	agent?	18	A. This was the only subgroup
19	A. Yes.		for which the proportion of users increased
20	Q. All right. Is recall bias		between enrollment and follow-up.
	real or is that only a theoretical	21	Q. And did they say that that
	possibility?	l	could indicate recall bias
23	MR. TISI: Objection. Asked	23	A. And it could indicate, yeah,
24	and answered.	24	it could indicate recall bias, i.e.,
	Page 411		Page 413
1	THE WITNESS: It exists.		overreporting of talc use among those with
	BY MS. LEHMAN:	l	a history of ovarian cancer.
3	Q. All right. And does O'Brien	3	Q. We looked at O'Brien (2024) a
	(2024) specifically state that the	l	lot. And what the question I have there
	participants reporting talc use could be		is does the O'Brien (2024) article contain
	recalling products that contain talc,	l .	a disclaimer that the work was funded by
	cornstarch, or a mixture and women may have	7	the National Institutes of Health, but that
	used different products at different times?	8	the National Institutes of Health had no
9	A. Yes.		role in the design, conduct, or
10	Q. Does O'Brien (2023)		interpretation of the study?
	acknowledge that when talking about that	11	A. Yes, that's there at the end.
	there can be some evidence of recall bias	12	Q. Okay. Now, you were asked a
1	of genital talc use among ovarian cancer		couple of questions about the Ovarian
	survivors?	l	Cancer Cohort Consortium. That was Exhibit
15	MR. TISI: Objection.		No. 13.
16	THE WITNESS: Yes.	16	A. Yes.
	BY MS. LEHMAN:	17	Q. On your materials considered
18	Q. And, in fact, did O'Brien		list includes an article published in the
	(2023) call out the subgroup of ovarian	l	Journal of National Cancer Institute titled
	cancer survivors as a group for which there	l	"Analgesic use and ovarian cancer risk:
	was a proportion in which the those	21	,
1	reporting talc use increased from	l	Consortium," correct?
1	enrollment and that was the only subgroup	23	A. I need to double check that
24	for which that was true?		one. That is not one that

1	1 MR. TISI: Do you have a copy		Page 416 your memory, Dr. Kornak, that the IARC	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	of that, Kate?		2 press release stated that a causal role for	
$\frac{2}{3}$	•			
l .	•	4	3 talc could not be fully established?	
4	3		A. Yes, that's correct.	
5		5	MR. TISI: Objection.	
6		_	6 BY MS. LEHMAN:	
7	MS. LEHMAN: I'm not going to		7 Q. Okay. And when you were	
8	•		asked about O'Brien (2020), is it correct	
9	, 11 3		that O'Brien (2020) states, "However, these	
10	, ,		findings may be affected by recall bias and	
11	considered list, Dr. Kornak.		a recent surge in talc-related lawsuits and	
12			media coverage has increased this	
13	· •		possibility"?	
14	here and, what was the title again?	14	MR. TISI: Objection.	
15		15	THE WITNESS: Yes.	
16	(Trabert Article marked	16	MS. LEHMAN: Okay. All right.	
17	Kornak Exhibit 23 for	17	Dr. Kornak, those are all the	
18	identification.)	18	questions I have at this time.	
19		19	Thank you.	
20	BY MS. LEHMAN:	20	MR. TISI: Have a good night.	
21	Q. It should be "Analgesic use	21	MS. LEHMAN: Robin, he will	
22	and ovarian cancer risk: An analysis of	22	read and sign.	
	the Ovarian Cancer Cohort Consortium."	23	MR. TISI: Robin, I'm going to	
24	MR. TISI: What was the year?	24	request a rough	
	Page 415		Page 417	
1	MS. LEHMAN: 2019. It's the	1	MS. LEHMAN: I guess my	
2		2	question is when do you think	
3	•	3	you'll be able to send the rough?	
4		4	Can you flip it over tonight?	
5		5	THE STENOGRAPHER: I will try.	
	considered list?	6		
7		7	(Whereupon, the deposition	
8		8	was concluded at 6:19 p.m.)	
1	inaccurate to say the first time you ever	9	was concluded at 0.17 p.iii.)	
	heard of the Ovarian Cancer Cohort	10		
		11		
	Consortium was during this deposition,	12		
1	correct?			
13	•	13		
14		14		
15	•	15		
16	£ ,	16		
17	•	17		
18		18		
19		19		
20		20		
21	BY MS. LEHMAN:	21		
22		22		
23	questions about the IARC press release and	23		
24	you were shown the Lancet article and is it	24		

is .			1
	Page 418	¥	Page 420
1	CERTIFICATION	1 2 ERRATA	
2		4 PAGE LINE CHANGE	
3		5	
4	I HEREBY CERTIFY that the proceedings and	6	
5	evidence are contained fully and accurately in the	7	
6	stenographic notes taken by me upon the foregoing		
7	matter on July 8, 2024, and that this is a correct	8	
8	transcript of same.	9 — —	
9	···	10	
10		11	
11			
12		12	
13		13	
	Rober & Clark	14	
14	Robin L. Clark	15	
15		16 — — —	
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20		(500)	
21	(The foregoing certification of this	21	
22	transcript does not apply to any reproduction of the	22	
23	same by any means unless under the direct control	23	
24	and/or supervision of the certifying reporter.)	24	
	SECTION OF THE SECTIO		
	Page 410		Page 421
1	Page 419 INSTRUCTIONS TO WITNESS	1 ACKNOWLEDGMENT OF DEPONENT	Page 421
1	Page 419 INSTRUCTIONS TO WITNESS	2	Page 421
2	INSTRUCTIONS TO WITNESS	2 I, JOHN KORNAK, PhD, do hereby	Page 421
2	INSTRUCTIONS TO WITNESS Please read your deposition over carefully	2	Page 421
2 3 4	INSTRUCTIONS TO WITNESS Please read your deposition over carefully and make any necessary corrections.	I, JOHN KORNAK, PhD, do hereby certify that I have read the foregoing pages	Page 421
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New Jersey Rules Governing Civil Practice

Part IV, Rule 4:14

Depositions Upon Oral Examination

4:14-5. Submission to Witness; Changes; Signing If the officer at the taking of the deposition is a certified shorthand reporter, the witness shall not sign the deposition. If the officer is not a certified shorthand reporter, then unless reading and signing of the deposition are waived by stipulation of the parties, the officer shall request the deponent to appear at a stated time for the purpose of reading and signing it. At that time or at such later time as the officer and witness agree upon, the deposition shall be submitted to the witness for examination and shall be read to or by the witness, and any changes in form or substance which the witness desires to make shall be entered upon the deposition by the officer with a statement of the reasons given by the witness for making them. The deposition shall then be signed by the witness. If the witness fails to appear at the time stated or if the deposition is not signed by the witness, the officer shall sign it and state on the record the fact of the witness' failure or

refusal to sign, together with the reason, if any, given therefor; and the deposition may then be used as fully as though signed, unless on a motion to suppress under R. 4:16-4(d) the court holds that the reasons given for the refusal to sign require rejection of the deposition in whole or in part.

DISCLAIMER: THE FOREGOING CIVIL PROCEDURE RULES

ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE STATE RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

VERITEXT LEGAL SOLUTIONS

COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the

foregoing transcript is a true, correct and complete

transcript of the colloquies, questions and answers

as submitted by the court reporter. Veritext Legal

Solutions further represents that the attached

exhibits, if any, are true, correct and complete

documents as submitted by the court reporter and/or

attorneys in relation to this deposition and that

the documents were processed in accordance with

our litigation support and production standards.

Veritext Legal Solutions is committed to maintaining the confidentiality of client and witness information, in accordance with the regulations promulgated under the Health Insurance Portability and Accountability Act (HIPAA), as amended with respect to protected health information and the Gramm-Leach-Bliley Act, as amended, with respect to Personally Identifiable Information (PII). Physical transcripts and exhibits are managed under strict facility and personnel access controls. Electronic files of documents are stored

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